



IEEE



MTT-S
IEEE MICROWAVE THEORY &
TECHNOLOGY SOCIETY



IEEE
AP-S

Antennas and Propagation Society

PROGRAM SCHEDULE



"Where Global Minds Meet Signal Science, Coastal Charm, and the Future of Electromagnetics"



ORGANIZING INSTITUTE & ACADEMIC PARTNER



Indian Institute of Space
Science and Technology

SUPPORTED BY



Defence Research and
Development Organisation



Indian Space
Research Organization



Society for Applied Microwave
Electronics Engineering and
Research

SIGNATURE SPONSORS



Keysight
Technologies



Astra Microwave
Products Ltd.

CHIEF PATRONS



V. Narayanan
 Secretary DoS and Chairman,
 ISRO



Samir V. Kamat
 Secretary DDR&D and Chairman
 DRDO

PATRONS



B.K. Das
 DS & DG-ECS, DRDO Ministry of
 Defence, Gol



Nilesch M. Desai
 Director, SAC, ISRO Department
 of Space, Gol



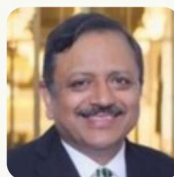
Dipankar Banerjee
 Director
 IIST Thiruvananthapuram, India



S. Unnikrishnan Nair
 Director, VSSC, ISRO Department of
 Space, Gol



M. Sankaran
 Director, URSC, ISRO
 Department of Space, Gol



Rajeev Jyoti
 Director (TD), IN-SPACE
 Department of Space, Gol



A. Robert J. Ravi
 Chairman & Managing Director
 BSNL Ministry of
 Communications, Gol

ADVISORS



A. K. Anilkumar
 Director, ISTRAC, ISRO
 Department of Space, Gol



Dinesh Kr. Singh
 Director, HSFC, ISRO
 Department of Space, Gol



Duvvuri Seshagiri
 Director, NPOL Kochi DRDO,
 Ministry of Defence, Gol



Kuruvilla Joseph
 Registrar & Dean Academic
 IIST Thiruvananthapuram, India



Vinod Kumar
 Director (PD), IN-SPACE
 Department of Space, Gol



Prakash Chauhan
 Director, NRSC, ISRO
 Department of Space, Gol



V Sachithananda Shenoi
 Director, DRDO Jodhpur center
 Ministry of Defence, Gol

GENERAL CHAIR



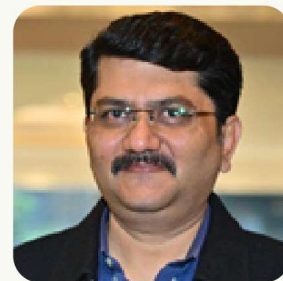
Chinmoy Saha
 Professor
 IIST Thriuvananthapuram, India

GENERAL CO-CHAIR



Tushar Sharma
 Director (RFACS)
 Renesas Electronics, India

CONVENOR



Ashutosh Kedar
 Scientist-G, PD
 LRDE, DRDO, India

TPC CO-CHAIRS



Jasmin Grosinger
 Professor
 University of Siegen, Germany



Jawad Siddiqui
 Professor, University of Calcutta,
 RMC, Canada



B.S. Manoj
 Professor
 IIST Thriuvananthapuram, India

FINANCE CHAIR

ORGANISING SECRETARIES



Debarati Ganguly
 IIIT Kottayam, India

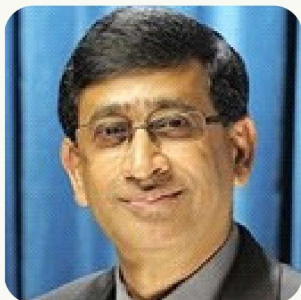


Deepti Das Krishna
 Cochin University of Science and
 Technology, India



Sukomal Dey
 IIT Palakkad, India

KEY SOCIETY PRESIDENTS



Goutam Chattopadhyay
IEEE MTT-S President 2025



Christophe Fumeaux
IEEE AP-S President 2025



Maurizio Bozzi
IEEE MTT-S President 2024



Branislav M. Notaros
IEEE AP-S President 2024



Nuno Borges Carvalho
IEEE MTT-S President 2023



Stefano Maci
IEEE AP-S President 2023



Anding Zhu
IEEE MTT-S President Elect 2025



C.J. Reddy
IEEE AP-S President Elect 2025

MAPCON EXECUTIVE COMMITTEE



Jaleel M. Akhtar
 IIT Kanpur, India



Ashutosh Kedar
 LRDE, DRDO India



Chinmoy Saha
 Professor, IIST India



Debatosh Guha
 University of Calcutta, India



K.J. Vinoy
 IISc Bengaluru India



Yahia M. Antar
 Royal Military College Canada



Puneet K. Mishra
 URSC ISRO, Bengaluru India



Rajeev Jyoti
 IN-SPACE, ISRO, Ahmedabad India



Shibban K. Koul
 IIT Delhi, India



Usha P. Verma
 ASL DRDO, Hyderabad India

TRACK CHAIRS



Ashutosh Kedar
 LRDE, DRDO, India



Ashwin K. Iyer
 University of Alberta, Canada



George Shaker
 University of Waterloo, Canada



K. J. Vinoy
 Indian Institute of Science (IISc), India



Kumar Vaibhav Srivastava
 IIT Kanpur, India



Levent Sevgi
 Istanbul Technical University
 (Emeritus), Turkey



Nuno Borges Carvalho
 Universidade de Aveiro, Portugal



Roberto Gómez-García
 University of Alcalá de Henares,
 Spain



Valentina Palazzi
 University of Perugia, Italy



Yang Yang
 University of Technology Sydney,
 Australia

AP-S MASTERCLASS



Yahya Rahmat-Samii

PLENARY SPEAKERS



Jin Bains



Dalma Novak



John L. Volakis



Brian Brophy

KEYNOTE SPEAKERS



Goutam Chattopadhyay



Christophe Fumeaux



Manos M. Tentzeris



Anding Zhu



Joseph Bardin



Stefano Maci



Maurizio Bozzi



Nuno Borges Carvalho



Rod Waterhouse



Karu Esselle



Debatosh Guha



M. Jaleel Akhtar

KEYNOTE SPEAKERS



Branislav M. Notaros



Ke Wu



John La Salle



Sathya Padmanabhan



Mauro Ettore



Chen Zhi Ning



Hendrik Rogier



Yang Hao



M.V. Kartikeyan



Lars Foged



*Zhizhang (David)
Chen*



Saibun Tjuatja



Vince Nguyen

INVITED SPEAKERS



Dirk Heberling



Julien Sarrazin



P.H. Rao



Shreyas Sen



Mohammad H. Zarifi



Akram Alomainy



Guido Valerio



Kaushik Sengupta



Roberto G. García



Satish K. Sharma



Francesco P. Andriulli



Changzhi Li



George Shaker



Anthony Ghiotto



Ashwin Iyer



Almudena Suárez



Ashutosh Kedar

SIGNATURE SPONSORS



**Keysight
Technologies**



**Astra Microwave
Products Ltd.**

DIAMOND SPONSORS



Win Semiconductors



Microwave Vision Group



APC Technologies

PLATINUM SPONSORS



ICON Electromatic



RFMW



Maury Microwave



Rohde & Schwarz



Paras Antidrone

ACADEMIC SPONSORS



IIT Kottayam

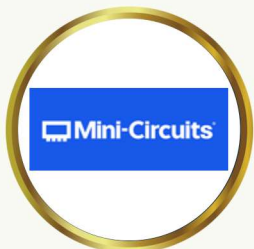


NIT Silchar



Institute of Engineering & Management

GOLD SPONSORS



Mini Circuits



Centum



Texas Instruments



Bharat Electronics Ltd.



Mathworks



NUMEREGION's
TaraNG



Dassault Systèmes



Lotus Microwave

SILVER SPONSORS



Ananth



Icon Design
Automation



SP3 Technologies
LLP



N Space
Technologies



Infinipoint, Ansys



Altair



TECSOL



Indra Insignia

BRONZE SPONSORS



SAMEER



**Unified-United
We Grow**



SYRATRON



**Times Microwave
Systems**



SSD Polymers



**FASTECH
Telecommunications**



FermionIC



SAMTEC



Spur DTDS Marubeni



JV Micronics



Eravant



Cadfem



Comsol

EXHIBITORS



INGAIN



Semi Dice



Jyoti Electronics



QWED



Albatross
 Projects



Anritsu



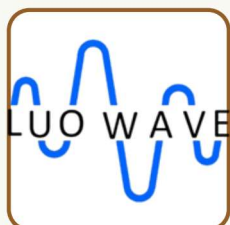
TICRA



Tekknow Technologies
 India Pvt Ltd



TMY Technology
 Inc.



LUO WAVE



FINE-LINE
 Circuits Ltd.



Radiall



QUALSYS

STARTUP & OTHER SOCIETIES



InRaSS



Accordyne



Ci4



Power F



RFMW
 Innovations Lab



Spacetime 4D
 Printing Solution

MAPCON 2025 CORE VOLUNTEER TEAM



Nrusingha C. Pradhan
 Central University of Karnataka, India



Sanghamitro Das
 Jones Microwave, Canada



Keerthipriya Satish
 Raman Research Institute, India



Malika Somanath
 IISc Bangalore, India



Gopika Reghunadhan
 IIST Thriuvananthapuram, India



Swarnadipto Ghosh
 University of Ghent, Belgium



Kathu Sudevan
 IIST Thriuvananthapuram, India



Shrinjoy Chatterjee
 SMS Group, India



Arunya Paul
 KIIT DU Bhubaneswar, India



Satyam Choudhary
 IEM Kolkata, India



Samiyalu Usurupati
 IIST Thriuvananthapuram, India



Gautham Purohit
 PierSight, India



Reshma Ramesh
 IISc Bangalore, India



Anamika A. Kamath
 HEX20 Labs, India



Kanha Jaiswal
 IIIT Kottayam, India



Rakshit Ahuja
 IEM Kolkata, India

DAY-1

DECEMBER 14, 2025

Highlights

- 12 Half-Day Workshops
- SIGHT Workshop
- Space Night
- Student Initiative Briefing

SUNDAY-Dec 14, 08:30-13:00 (Tea break: 10:30-11:00)

Workshop Code: Su-WO-C1.1

08:30-13:00

Hall: Grand Salon-I

Workshop Title:	Quantum Initiative Hands-on Workshop (Design and Simulation of Quantum Superconducting Circuits with ADS)
Speaker(s):	Amlan Chakrabarti (University of Calcutta, India) Anil-Kumar Pandey, Shobhit Tiwari and Soumya Dey (Keysight Technologies, India)

Workshop Code: Su-WO-C1.2

08:30-13:00

Hall: Atelier-II

Workshop Title:	Waves, Wires & Wizards: Towards Solving Ubiquitous Connectivity
Speaker(s):	Dilip Krishnaswamy and Anand Mohandas (C-DOT, India), Navin Kumar (Amrita School of Engineering, India), Manoj B. S. (IIST, India)

Workshop Code: Su-WO-C1.3

08:30-13:00

Hall: Atelier-III

Workshop Title:	Introduction to Electromagnetic Compatibility
Speaker(s):	Vignesh Rajamani (Rohde and Schwarz, USA), Tom Braxton (Illinois Institute of Technology, USA), John LaSalle (Northrop Grumman, USA), Jaleel Akthar (IIT Kanpur, India), Vikass Monebhurrin (Centralexupélec GeePs Paris, France)

Workshop Code: Su-WO-C1.4

08:30-13:00

Hall: Grand Salon-II

Workshop Title:	Innovations in Wireless Power: Beamforming, On-Demand Energy, and Sustainable RF Harvesting
Speaker(s):	Nuno Borges Carvalho (Universidade de Aveiro, Portugal), Chinmoy Saha and Gopika R (IIST, India), Diego Masotti (University of Bologna, Italy), Jasmin Grosinger (University of Siegen, Germany), Ifana Mahbub (University of Texas at Dallas, USA)

Workshop Code: Su-WO-C1.5

08:30-13:00

Hall: Atelier-1

Workshop Title:	Advanced Industry Workshop - 1
Speaker(s):	V.K. Anandan (Astra Microwave, India), Lars Foged (MVG), Rob Bolduc (MACOM (APC Technologies), USA), Cheng-Kuo Lin (WIN semiconductors, Taiwan)

Workshop Code: Su-WO-C1.6

08:30-13:00

Hall: Natika

Workshop Title:	R&S VNA mmWave portfolio up to 1.1THz
Speaker(s):	Christian Dille (Rohde and Schwarz, Germany)

LUNCH BREAK (13:00-14:00)

SUNDAY-Dec 14, 14:00-18:30 (High Tea break: 16:00-16:30)

Workshop Code: Su-WO-C2.1

14:00-18:30

Hall: Atelier-3

Workshop Title:	Advanced Workshop on Precise VNA Calibration, Validation, S-Parameter Measurement, and Analytical Visualization
Speaker(s):	Zacharia Ouadirhi, Vishal Gupta and Giampiero Esposito (Maury Microwave, USA)

Workshop Code: Su-WO-C2.2

14:00-18:30

Hall: Grand Salon-1

Workshop Title:	Design and Development of Small Satellites: A Full System Perspective
Speaker(s):	Priyadarshnam Hari (IIST, India), Jan Budroweit (Germany Aerospace Center (DLR), Germany)

Workshop Code: Su-WO-C2.3

14:00-18:30

Hall: Natika

Workshop Title:	Innovations in Drone Threat Mitigation: From Detection to Neutralization
Speaker(s):	Oluwakayode Onireti (University of Glasgow, UK), Abhishek Awasthi (Paras Antidrone Technologies, India)

Workshop Code: Su-WO-C2.4

14:00-18:30

Hall: Atelier-2

Workshop Title:	Theoretical & Computational Electromagnetics
Speaker(s):	Ramakrishna Janaswamy (University of Massachusetts, USA), Uday Khankhoje (IIT Madras, India)

Workshop Code: Su-WO-C2.5

14:00-18:30

Hall: Grand Salon-2

Workshop Title:	Advanced Industry Workshop - 2
Speaker(s):	Sumit Garg and Shashank Kulkarni (Mathworks, India), Siva Sai Krishna Puranam and Dushyanth Gala (Dassault Systems)

Workshop Code: Su-WO-C2.6

14:00-18:30

Hall: Atelier-1

Workshop Title:	Recent Advances in Antenna and Device Measurement Techniques and Standardization
Speaker(s):	Olav Breinbjerg (ElMaReCo, Denmark), Lars Foged (MVG), Neeraj Kumar (Accordyne, India), DC Pande (DRDO, India)

Workshop Code: Su-WO-C2.7

14:00-18:30

Hall: Vembanad-1

Workshop Title:	Advancing Humanity and Society through STEM: Driving Innovation for a Resilient Future
Speaker(s):	Goutam Chattopadhyay (NASA-JPL, USA), Christophe Fumeaux (University of Queensland, Australia), Chinmoy Saha (IIST, India), Debabani Choudhury (SeraTech, USA), Ajay Poddar (Synergy Microwave, USA), Sampath Veeraraghavan (Amazon, USA), Jawad Siddiqui (RMC, Canada), GS Mani (IEEE Pune JCAME), Glaucio Fontgalland (University of Mount Union Alliance, USA), Sujata Gupta Kedar (Mt. Carmel College, India)

SUNDAY-Dec 14, 19:00-20:00

Session Code: Su-Int-S3.1

Hall: Grand Salon 1&2

B.Tech, M.Tech and PHD Initiative

SUNDAY-Dec 14, 19:30-20:30

Session Code: Su-SN-S4.1

Hall: Cruise

Space Night: Panel discussion & Quiz

Jan Budroweit (German Aerospace Centre (DLR), Germany) and Ch.V.N. Rao (ISRO, India)

DAY-2

DECEMBER 15, 2025

Highlights

- 21 Technical Sessions
- 1 Poster Session
- 1 Industry Session
- 3 Plenary Talks
- 2 Young Professional Sessions
- Industry Exhibition

MONDAY-Dec 15

Session Code: Mo-TO-S1.1

08:30-10:30

Hall: Vembanad-1

Session Title:	RF Systems for Space Applications-I
Session Chair(s):	Ch V. N. Rao (ISRO, India) & Goutam Chattopadhyay, (NASA-JPL, USA)
Keynote: 08:30	MHz to THz Technologies and Our Place in the Universe Goutam Chattopadhyay (NASA-JPL, USA)
1571173758 09:00	Design and Development of Optical Sensor Emulator for Verification of on-Board HDA Algorithm of Chandrayaan-3 Vikas Singh, Shivani Bhargav, Umang Bhatia, Shitisha Bajpai, Pramod Mishra, Jaimin Hasmukhray Tanna, Abhishek Kunal, Ritesh Kumar Sharma and Saravana B Kumar (ISRO, India)
1571188636 09:15	Determination of Residual Amplitude Modulation in Phase-Modulated Signals for Deep Space Satellite TT&C Applications Shankhadip Mandal, Supratik Bose, Padma Vidhya A K, Senthil Kumar and Neelavathy M (ISRO, India)
1571188447 09:30	X-Band Frequency Synthesizer for Radar Altimeter of Gaganyaan Nitesh Sharma, Piyush Sinha, Piyush Garg, Mukesh Patel and Ch.V.N. Rao (ISRO, India)
1571173506 09:45	Design and Realization of a Tunable Frequency and Bandwidth RF Up-Converter for Satellite Communication Avinash R Pulsay, Amit Rawat, Rati Singh and Jayesh Thakkar (ISRO, India)
1571173629 10:00	A Study of (U, V) Coverage in Space Based VLBI Using Hybrid Satellite Orbits Tiasha Biswas, Harsha Avinash Tanti, Abhirup Datta and Samit Kumar Pal (IIT Indore, India)

Session Code: Mo-TO-S1.2

08:30-10:30

Hall: Vembanad-2

Session Title:	Special Session-9: Innovations in Beam-Steering Antenna Systems for 5G/6G and Advanced Satellite Communication
Session Chair(s):	Hendrik Rogier (Ghent University, Belgium) & Nasimuddin (Institute for Infocomm Research, Singapore)
Keynote: 08:30	mmWave-over-Fiber Distributed Antenna Systems for Next-Generation Wireless Applications Hendrik Rogier (Ghent University, Belgium)
1571184708 09:00	Design of a Wideband Multi-Beam Dielectric Resonator Antenna Array for Millimeter-Wave Applications Sanghmitra and Ravi Kumar Gangwar (IIT ISM Dhanbad, India), Raghvendra Kumar Chaudhary (IIT Kanpur, India)
1571185017 09:15	A Systems Engineering Approach for Aeronautical SATCOM Asif Rizwan (Aeronautical Development Establishment, India), Soumya Ranjan Sahoo and Raghvendra Kumar Chaudhary (IIT Kanpur, India)
1571188550 09:30	A Simple, Compact, Dual-Polarized Hexagon Microstrip Patch Antenna with Integrated V-Shaped Slot for Improved Port-to-Port Isolation in Ku-Band SATCom Applications Ruby Sharma (IIT Kanpur, India), Harshal Randive (Pandit Deendayal Energy University, India), Raghvendra Kumar Chaudhary (IIT Kanpur, India)
1571188584 09:45	Compact Multiband SIW Monopole Antenna with Crescent-Shaped Slot for Ka-Band and 5G FR2 Applications Yadvendra Prasad Dwivedi (ABV IITM Gwalior, India), Raghvendra Kumar Singh and Ashish Gupta (JIIT Noida, India), Pinku Ranjan (IIIT & Management, India), Somesh Kumar and Rakesh Chowdhury (ABV IITM Gwalior, India)
1571188613 10:00	A Multiple Layered Reflective Ground-Based ME-Dipole Antenna with Stable Far-Field Properties for X-Band Applications Anubhav Kumar, Rishabh Raj and Raghvendra Kumar Chaudhary (IIT Kanpur, India)
1571183434 10:15	Planar Log Periodic Dipole Antenna Aided Passive Beamforming for 5G Applications Sourasami Nandi, Nilanjan Dutta, Shrabani Mukherjee and Kaushik Mandal (University of Calcutta, India)

Session Code: Mo-TO-S1.3

08:30-10:30

Hall: Vembanad-3

Session Title:	Computational Electromagnetic-I
Session Chair(s):	Chandrakant Kumar (ISRO, India) & Zhizhang (David) Chen, (Dalhousie University, Canada)
Keynote: 08:30	A Trifecta for Advancing Computational EM: Unification, Equivalence Principle, and Time Reversal Zhizhang (David) Chen (Dalhousie University, Canada)
1571184770 09:00	Near-Field Pattern Synthesis of a Bowtie Antenna Using Inverse Method of Moments Ananya Dey and Amitabha Bhattacharya (IIT Kharagpur, India)

1571173514 09:15	Measuring the Mass of Heavy Stars Using Gravitational Redshift Spectrum Analysis Ankit Mishra (IIT Bombay, India), Rakesh Sinha (NIT, Rourkela, India)
1571184811 09:30	Computational Modeling of Rust-Induced Electromagnetic Scattering in Reinforced Concrete Using Triangular Mesh Discretization Akshay Pratap Singh, Kuldeep Singh and Rajendra Mitharwal (Malviya NIT Jaipur, India)
1571188596 09:45	Fast and Lightweight Electromagnetic Simulation Using Digital Delay-Line Models Rashmirekha Kalyani Mishra (NIT Rourkela, India), Rabindra Kishore Mishra (Berhampur University, India)
1571184688 10:00	Genetic Algorithm-Based Hybrid Printed Metasurface for Wideband RCS Reduction Munna Aziz and Akhila Gouda and Saptarshi Ghosh (IIT Indore, India)

Session Code: Mo-TO-S1.4

08:30-10:30

Hall: Grand Salon-1

Session Title:	Static & Reconfigurable High-Gain—A Beam Steering Surfaces
Session Chair(s):	Animesh Biswas (IIT Kanpur, India) & Karu Esselle (University of Technology Sydney (UTS), Australia)

Keynote: 08:30	Near-Field Meta-Steering or Risley Prism— A Low-Profile Method to Steer the Beam of Any Antenna Karu Esselle (University of Technology Sydney (UTS), Australia)
1571188576 09:00	Compact Wideband Circularly Polarized Antenna Using an All-Dielectric Partially Reflecting Surface Khushboo Singh, Dush Thalakatuna and Karu Esselle (University of Technology Sydney, Australia)
1571183704 09:15	A Reconfigurable Multifunctional Meta-Surface for Simultaneous Transmission, Reflection and Beam Splitting Abu Hena Murshed and Ifana Mahbub (University of Texas at Dallas, USA)
1571184896 09:30	Transmissive All-Dielectric Beam-Focusing Metasurface for High-Gain Applications Madhusudhan Goud Rangula (NIT Suratkal, India), Basudev Majumder (IIT Bombay, India), Krishnamoorthy Kandasamy (NIT Suratkal, India)
1571184197 09:45	PCB-Based MTM-EBG Employing Vias for Common-Mode Suppression Samuel Clark, Braden P. Smyth and Manting Wang (University of Alberta, Canada), Anuj Y. Modi and Naman Barnecha (Amazon Lab 126, USA), Ashwin K. Iyer (University of Alberta, Canada)
1571173741 10:00	28 GHz Passive Reflectarray Employing Patch Size Modulation for Static Beam Steering Spandan Manna and Florian Reher (RWTH Aachen University, Germany), Amar Al-Bassam (Fraunhofer Institute for High Frequency Physics and Radar Techniques, Germany), Dirk Heberling (RWTH Aachen University, Germany)

Session Code: Mo-TO-S1.5

08:30-10:30

Hall: Grand Salon-2

Session Title:	Passive Microwave Components & Devices-I
Session Chair(s):	Rajesh R (DRDO, India) & Pramod Pandey (University of California Davis, USA)

1571167326 08:30	A Compact Ku-Band 30-dB Rectangular Waveguide Riblet-Type Coupler Priyanka, Shaji V. Sebastian, MD. Tosicul Wara, and Vishnu Kishore Pai (ISRO, India)
1571172497 08:45	Design of Low-Loss Phase Trimmer Module for s-Band Radar Transmit Chain Rahul Alok Sharma and Anayatpur Rahman (BEL, India)
1571173801 09:00	Practical Implementation of the Miniaturized Matched Five-Port Network with Equal Power Division Aduitya Kaushal and Rakesh Sinha (NIT Rourkela, India)
1571173852 09:15	Dual-Band Filter for SATCOM Applications at Ka-Band Nishant Shukla (ISRO, India), Akhilesh Mohan (IIT Roorkee, India), Vikas Gupta, Praveen Ambati and Jayesh Thakkar (ISRO, India)
1571183544 09:30	Variable Substrate Integrated Waveguide Phase Shifter Sriparna De and Shibani K Koul (IIT Delhi, India), Kamal Samanta (Sony Europe Ltd., UK)
1571183786 09:45	A Very High Isolation Extended C-Band Diplexer for Satellite Communication Sayyad Shahwaz Ali, Elumalai Dillibabu and Rupa Samyuktha Kotla (BEL, India)
Keynote: 10:00	Developments in Phased Array Radar Measurements Vince Nguyen, Aerospace Defense and Government Solutions, Keysight Technologies

Session Code: Mo-TO-S1.6

08:30-10:30

Hall: Atelier-1

Session Title:	New Frontiers in RF Frontends-I
Session Chair(s):	Jiro Hirokawa (Institute of Science Tokyo, Japan) & Puneet Kumar Mishra (ISRO, India)

1571184354 08:30	Design of a Broadband V/UHF Power Amplifier Using a Planar Power Combining Technique Joydeb Mandal, Elumalai Dillibabu and Satyanarayana V (BEL, India)
1571173355 08:45	Intelligent PDK-Based Circuit Design Approach for T/R MMIC Functional Blocks

	Alexey Kalentyev and Igor Dobush (50ohm Technologies, Russia), Andrei Salnikov (TUSUR University, Russia), Aleksandr Goryainov and Aleksandr Metel (50ohm Technologies, Russia)
1571184059 09:00	A High-Isolation Ka-Band GaN pHEMT Transmit-Receive Module for 5G FR2 mmWave Communication Ritan Das, Anusree Ajayan and Basudev Majumder (IIST, India)
1571184575 09:15	X Band Multi-Function MMIC for Phased Array Applications Using E/D Mode Technology M Laxmi, V Anbarasan, Sari S and Nagaveni H (BEL, India)
1571184608 09:30	Design of a Compact CMOS-Based K-Band T/R Module for High-Precision AESA Systems Arthi R, Christopher S and R David Koilpillai (IIT Madras, India)
1571185183 09:45	An Extended-Range Voltage-Controlled Oscillator Based on Negative Resistor and Negative Capacitor Alexander Leontyev, Nikita Kalmykov and Dmitry Kholodnyak (Saint Petersburg Electrotechnical University LETI, Russia), Yingsong Li (Anhui University, China)
1571188385 10:00	C-Band 6-Bit Digital Phase Shifter MMIC Design for Space Borne Synthetic Aperture Radar Mounika Kare, Ravi Khatri, Piyush Sinha, Ch.V.N. Rao and Mukesh Patel (ISRO, India)
1571188432 10:15	A Packaged 89 GHz LNA MMIC for High-Sensitivity Atmospheric Sounding Piyush Sinha, Mukesh Patel and Ch.V.N. Rao (ISRO, India)

Session Code: Mo-TO-S1.7

08:30-10:30

Hall: Atelier-3

Session Title:	Radiating Structures for XPD and RCS Reduction
Session Chair(s):	V.K Anandan (Astra Microwave, India) & Vivek Ashok Bohara (IIIT Delhi, India)

1571183573 08:30	Design of a Wideband a-Sandwich Radome with High Angular Stability Using Bandstop Frequency Selective Surface for RCS Reduction Applications Harikrishna Paik and Subodh Narayan Pandharkame (Vel Tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, India)
1571184233 08:45	A Compact UWB Antenna with High Gain and Efficiency Using a Copper Reflector Dharishti Thappa, Ummer Rashid Dar, and Archana Rajput (IIT Jammu, India)
1571184499 09:00	Compact Low-Profile Antenna with Integrated Lossy Layer for Radar Cross Section Reduction Ummer Rashid Dar, Mehran Manzoor Zargar, Archana Rajput and Kushmanda Saurav (IIT Jammu, India)
1571184611 09:15	RCS Estimation and Reduction of Helicopter for Combat Applications Vani R, Jithin Anand N, Govindraj Channadasar, Om Ranjan, Balamati Choudhury (CSIR-National Aeronautics Laboratory, India)
1571184795 09:30	Reduction of H-Plane Cross-Polarization in Microstrip Patch Antennas Using Floating Metallic Vias Satish Srivastava, Sivada Manisankar, A. R. Harish (IIT Kanpur, India)
1571184848 09:45	Dual Polarized Meshed Patch Antenna with Octagonal Ground for Wide Scan Phased Array Application with Low Cross Polarization Raj Karmakar (Data Patterns India Private Limited, India), Anitha Daniel and Manas Sarkar (ISTRAC, India), Chinmoy Saha (IIST, India)
1571184992 10:00	Low-Profile Broadband Magneto-Electric Dipole Using Lumped-Inductor Loading Meera Prajapati (Pandit Deendayal Energy University, India), Rishi Mishra and A. R. Harish (IIT Kanpur, India)
1571188649 10:15	An Evidence of Manipulating Ground Plane Current Due to a Linearly Polarized Microstrip Patch to Drastically Minimize Its Cross-Polar Fields Sk Rafidul (HCLTech, India), Soumojeet Basak (University of Calcutta, India), Debojyoti Choudhury (HCLTECH, India), Debatosh Guha (University of Calcutta, India)

Session Code: Mo-TO-S1.8

08:30-10:30

Hall: Natika

Session Title:	Special Session-18: Advances in signal processing techniques for radio astronomy, remote sensing, and satellite communications
Session Chair(s):	Kaushal Buch (TIFR, India) & Saibun Tituja (University of Texas at Arlington, USA)

Keynote: 08:30	Advancing Microwave Remote Sensing through Physics-Based Modeling of Wave-Medium Interactions Saibun Tituja (University of Texas at Arlington, USA)
1571184676 09:00	Direction Estimation of a Jamming Signal Using an Optimized Direction-Finding Algorithm S Shashank (BITS Pilani, India), Vinay B Narayane (Paras Anti Drone Technologies, India), Paresh Saxena (BITS Pilani, India), Ashutosh Baheti (Paras Anti-Drone Technologies, India)
1571184913 09:15	Verification of maxSNR Method for eGMRT Experimental Aperture Array Beamformer Kaushal Buch, Bela S. Dixit and Ajithkumar B (TIFR, India)
1571184960	A Lightweight ML-Based Pipeline for Optimizing Mission Planning of Earth-Orbiting Satellites

09:30	Riddhi Srivastava and Abhirup Datta (IIT Indore, India)
1571186234	LEO Payload and Constellation Design for Monitoring GEO High Throughput Satellites
09:45	Balmukund Trivedi, Pawan Barnwal, Saket Buch, Ujjwal Gangele and Subhash Bera (ISRO, India)
1571188618	Inverted LPDA for Broadband Radio Astronomy Observation Between 150 and 800 MHz
10:00	Abhishek R and Vinay Jha Pillai (Christ University Bangalore, India), Prabu Thiagaraj (RRI, India)
1571188629	Real-Time 21 cm Hydrogen Line Signal Processing Using Software-Defined Radio and Python:
10:15	Design, Implementation, and Antenna Optimization Praveen B V and Prabu Thiagaraj (RRI, India)

Session Code: Mo-Ind-S1

08:30-10:00

Hall: Liwa-F

Industry Exhibition

TEA BREAK (10:30-11:00)

Session Code: Mo-PI-S2.1

11:00-13:00

Hall: Vembanad-1, 2 & 3

Session Title:	Plenary Session: 1
Session Chair(s):	Jasmin Grosinger (Universität Siegen, Germany)

Plenary Talk:1 11:00	Future Directions in Wireless Links: Fabrication and Packaging John L. Volakis (Florida International University, USA)
Plenary Talk:2 11:40	Radio over Fiber Technologies for Future G Networks Dalma Novak (Octane Wireless, USA)
Plenary Talk:3 12:20	The Coming Wave of RF & Microwave Systems: Communication, Sensing, Energy and Beyond Jin Bains (Mini-Circuits, USA)

LUNCH BREAK (13:00-14:00)

Session Code: Mo-TO-S3.1

14:00-16:00

Hall: Vembanad-1

Session Title:	Special Session: Phased Array
Session Chair(s):	Mauro Ettorre (Michigan State University, USA) & Raghvendra K. Chaudhary (IIT Kanpur, India)

Keynote: 14:00	Wideband Long Slot Arrays: Analysis, Design, and Applications for Next Generation Communication Networks and Beyond Mauro Ettorre (Michigan State University, USA)
Invited 14:30	Phased Array Antennas for Wireless and Satellite Communication Applications Satish Kumar Sharma (San Diego State University, USA)
1571172998 15:00	Online Calibration Mechanism for 64TR Ku Band Satcom Array Vidyalakshmi Mandakolathur Ravi and Ratnesh Kumar Gaur (Tejas Networks, India)
1571184368 15:15	Two-Dimensional Beamforming with 90° Hybrid Coupler and Reconfigurable Frequency Selective Surface Ranjit Kumar Dutta and Kumar Vaibhav Srivastava (IIT Kanpur, India)
1571184374 15:30	Bidirectional Beamforming Antenna Using Butler Matrix and Partially Reflective Surface for High-Gain Applications Ranjit Kumar Dutta and Kumar Vaibhav Srivastava (IIT Kanpur, India)
1571184859 15:45	Active Phased Array Antenna Integrated with Beamforming IC on LTCC Substrate Gaurav Kumar, Mevada B Pratik, Ramesh Chandra Gupta, Vijay Kumar Singh, Sanjeev Kulshrestha and Milind B Mahajan (ISRO, India)

Session Code: Mo-YP-S3.1

14:00-16:00

Hall: Vembanad-2

Session Title:	Young Professional Session-1
Session Chair(s):	Rajeev Jyoti (IN-SPACE, Govt of India) & Kuruvilla Joseph (IIST, India)
Inauguration	
Keynote:	Arts and Techniques of Bridging the Academic Research for Industrial/ SPACE Applications: Few Case Examples

	Ch. V.N Rao (ISRO, India)
YP Keynote:	National Initiatives, Opportunities and Challenges for YP A Robert J Ravi (BSNL, India)
Discussion	Round Table Discussion on Journey of Research Scholars Dr. Shobha (IIIT Delhi, India), Dr. Amit Kumar Singh (IIT Patna, India), Debaprasad Barad (Astra Microwave Products Ltd, India)

Session Code: Mo-TO-S3.2

14:00-16:00

Hall: Vembanad-3

Session Title:	Design and Characterization of Smart Antenna Systems
Session Chair(s):	Christophe Fumeaux (University of Queensland, Australia) & Milind Mahajan (ISRO, India)

Keynote: 14:00	The Art of Mode Packing: Fitting Independent Modes into a Shared Volume for Multi-Functional Antennas Christophe Fumeaux (University of Queensland, Australia)
1571173497 14:30	On the Role of Mutual Coupling in Enhancing Antenna Array Gain Anant Goyal, Aggraj Gupta, Riddhibrata Bhaumik and Uday Khankhoje (IIT Madras, India)
1571173111 14:45	Graphene-Based Reconfigurable on-Chip Antenna for 6G/Satellite IoT P Omsai, Bhavesh N, Praveen M (BVRIT, India), Guthi Srinivas (NIT Warangal, India), Sanjeev Reddy and Ramesh Deshpande (BVRIT, India)
1571163083 15:00	Frequency Selective Surface Unit Cell Consisting of Arbitrary Loop and Parametric Loop Ramesh Chandra Gupta, Vijay Kumar Singh and Milind B Mahajan (ISRO, India)
1571184365 15:15	Design and Development of Cage Dipole Antenna for Space-Based EW Applications Sairam C, Sheilu Singh, Takeshore Khumanthem, A Mallikarjuna Rao, Sudhir H and Chakravathy M (DRDO, India)
1571185560 15:30	CMA Assisted Design of a Dense 5-Bit Multiresonator-Based Chipless RFID Tag Rashmirekha Kalyani Mishra and Santanu Kumar Behera (NIT Rourkela, India), Rabindra Kishore Mishra (Berhampur University, India)
1571184372 15:45	Cross and Four Quadrant Planar-Based Reconfigurable Intelligent Surface for Multiband Ashok Kumar Sahu and Ravi Kumar Gangwar (IIT ISM Dhanbad, India)

Session Code: Mo-TO-S3.3

14:00-16:00

Hall: Grand Salon-1

Session Title:	Special Session on 5G/6G and beyond
Session Chair(s):	PH Rao (SAMEER, India) & Ramesh Gupta (Ligado Networks, USA)
Speaker:1 14:00	6G technology challenges and India initiatives PH Rao (Director General, SAMEER, India)
Speaker:2 14:30	2 Themes for 6G: Non-Terrestrial Networks & ISAC Sumit Roy (University of Washington, USA)
Speaker:3 15:00	AI-driven Data Boom—Challenges and Opportunities Rakesh Kumar (IEEE Future Directions and DataPort)
Speaker:4 15:30	Design of Phased Array Architectures and Beamforming ICs for SATCOM and 5G Systems Nitin Jain (Qorvo, USA)

Session Code: Mo-TO-S3.4

14:00-16:00

Hall: Grand Salon-2

Session Title:	High-Power Microwave System Design
Session Chair(s):	M.V. Kartikeyan (IIITDM Kancheepuram, India) & Subrata Kumar Datta (DRDO, India)

Keynote: 14:00	Gyrotrons: EM Powering Innovation with Millimeter and Terahertz Waves M.V. Kartikeyan, (IIITDM-Kancheepuram, India)
1571155450 14:30	Transmission Line Theory-Based Load Line Equations to Improve Power Amplifier Design Syed Enamur Rahaman (Lam Research, India), Goffar Ali Sarkar (Kalimpong Government Polytechnic, India)
1571171614 14:45	Design and Development of TM02 Mode Launcher for High Power Microwave Application Vijaya Kumar M, Guguloth Kiran, M Sumathy and Subrata Kumar Datta (DRDO, India)
1571172714 15:00	Computational Fluid Flow Analysis of a Collector for a High-Power Multiple-Beam Klystron R. Venkat, Mithilesh Kumar, Ashok Bansiwala, V. Nallasamy and Subrata Kumar Datta (DRDO, India)
1571173284 15:15	Investigation of a W-Band, Five Cavity, 100 kW Gyroklystron Amplifier as Power Source for Indigenous RADAR System Swati MV and Gaurav Singh Baghel (NIT Silchar, India), Naveen Kumar Sharma, Santanu Karmakar and Subrata Kumar Datta (DRDO, India)
1571173588 15:30	Design of Electron Optic System for s-Band Multi-Beam Klystron Mithilesh Kumar, Ashok Bansiwala, V. Nallasamy and Subrata Kumar Datta (DRDO, India)

1571184808 15:45	Development and Characterization of Magnetron Injection Gun (MIG) for 15 kW (CW)/28 GHz Millimeter Wave Source Hasina Khatun, Narendra Kumar Singh, Nitin Kumar, Subhash Kumar Ram and Brijendra Kumar Verma (CSIR-CEERI, India), Subham Chowdhury (AcSIR, India), Anirban Bera (CSIR-CEERI, India)
-----------------------------------	---

Session Code: Mo-TO-S3.5

14:00-16:00

Hall: Atelier-1

Session Title:	RF Systems for Space and Defence-II
Session Chair(s):	Ashwin K Iyer (University of Alberta, Canada) and Suchith Rajagopal (DRDO, India)
1571173911 14:00	Design of Generalized Parallel Direct Digital Synthesis Architecture for High Frequency Chirp Signal Generation Aditya Parikshit Khachane (BITS Goa, India), Priyank Atri (BITS Pilani, India), Rithwik Sai Madadi (BITS Hyderabad, India), Sonu Panchal and Ravi Saini (CSIR-CEERI, India)
1571183515 14:15	An Orthogonal Polynomial Model-Based Digital Pre-Distortion System for Improved and Numerically Stable Linearisation of RFPA Amrit Kumar Panigrahi, Tarun Kumar Suretia and Karun Rawat (IIT Roorkee, India)
1571188607 14:30	Humidity Sounder Unit Frequency Generation Scheme for Space-Borne Hyperspectral Millimeter Wave Atmospheric Temperature and Humidity Sounder Payload Samidha Jain, Shruti Sinha, Venkat Reddy, Vimal Kumari Sharma, Mukesh Patel and Ch.V.N. Rao (ISRO, India)
1571188466 14:45	Design and Realization of 91.65 GHz LO Module with Integrated Frequency Multipliers for Spaceborne Humidity Sounder Ravi Khatri, Piyush Sinha, Mukesh Patel and Ch.V.N. Rao (ISRO, India)
1571173639 15:00	Dual Channel SAW Processor Using Narrowband TCRF Yuvraj Lilhare, Prashant Varma, Santanu Sinha, and Punam Tyagi (ISRO, India)
1571183802 15:15	An X-Ku Band Direct Frequency Synthesizer Using Dual DDS Architecture Soumyadeep Biswas, Sonal G. Naik, and Y. Hemalatha (DRDO, India)
1571184450 15:30	Miniaturized Multi-Channel Digital Beam Former and Autonomous Controller System for Space-Borne Sweep SAR Mission Garima Sharma, Shalini Gangele, Ramesh Kumar, Samrat Sinha, Manish Kumar, Rinku Atulkumar Agrawal and Saravana B Kumar (ISRO, India)
1571184691 15:45	Configuration, Design & Validation of 4 Channel IF Back-End Receiver for Space Borne Temperature Atmospheric Sounding Application Nilesh Dineshbhai Makwana, Shruti Sinha, Ch.V.N. Rao and Mukesh Patel (ISRO, India)

Session Code: Mo-TO-S3.6

14:00-16:00

Hall: Atelier-3

Session Title:	Special Session-17: Packaging and heterogeneous integration at high frequencies (Part-1)
Session Chair(s):	Santanu Sinha (ISRO, India) & Satyajit Chakrabarti (SAMEER Kolkata, India)
1571173076 14:00	Challenges in the Fabrication of High Frequency LTCC MCMs Prakhar Kumar Srivastava, Santanu Sinha, Harimohan Singh, Pabolu Viswambhara, Ishan Chaturvedi, Nagavenkata Anil Kumar Peddiraju and Punam Tyagi (ISRO, India)
1571184128 14:15	Design of a Wideband Feedback-Stabilized C-Band MMIC Low-Noise Amplifier Saurabh Kumar (IIST, India), Shrija Bhattacharyya, Harshita Tolani, Anamiya Bhattacharya and Vinit Kumar (ISRO, India), Chinmoy Saha (IIST, India), Mukesh Patel and Ch.V.N. Rao (ISRO, India)
1571173428 14:30	High Frequency Low-Loss Dielectric Ceramics Development for Space Applications K Ashok, B.Masin, Sreemolanadhan H (ISRO, India)
1571173448 14:45	Wafer Level Packaging of Quartz Based RF SAW Filters- Process Challenges and Solutions Surendranath Kilari, Santanu Sinha, Raj Kumar, Anuj Ghanshyambhai Sarode, Nihar Vaish, Yuvraj Lilhare, K Biju Kumar, Chiranjit Karmakar, Vishwendra Pratap Singh, Jignesh R Bhavsar, Jesuraja R, Shivendra Tripathi and Punam Tyagi (ISRO, India)
1571173517 15:00	Thermo-Structural Analysis of Failure in LTCC Under Assembly and Hermetic Seal Testing Conditions M Chandrashekhar, Jagadesh S V, Prakhar Kumar Srivastava, Sandip R Somani, Jaimin B Rami, Santanu Sinha, Sumit Kumar Shukla, Punam Tyagi, and Jolly Dhar (ISRO, India)
1571173958 15:15	D Band Dielectric Material Testing with a Fabry-Perot Open Resonator Bartlomiej Salski and Mateusz Kryszicki (Warsaw University of Technology, Poland), Marzena Olszewska-Placha (QWED Sp. z o. o, Poland)
1571184946 15:30	Electrical and Thermal Performance Tuning of Spoof Plasmonic Interconnect Rafichha Yasmin (Bangladesh University of Engineering and Technology, Bangladesh), Ishrat Jahan and Abdelrahman Omar (University of North Carolina at Charlotte, USA), Md. Zunaid Baten and A. B. M. Harun-ur Rashid (Bangladesh University of Engineering and Technology, Bangladesh), Soumitra R Joy (University of North Carolina at Charlotte, USA)
1571184952	Packaging of Millimeter Wave and Terahertz Electronic Components

Session Code: Mo-Ind-S3

14:00-16:00

Hall: Liwa-F

Industry Exhibition

Session Code: Mo-TP-S3

14:00-16:00

Hall: Liwa-F

Session Title:	Technical Poster Session: 1
Session Chair(s):	Nrusingha Pradhan (Central university of Karnataka, India)

1571173283	Mo-TP-S3.1	Design and Analysis of Textile Based Low Cost UWB Monopole Antenna for Wearable Applications Shubhanshi Jain (IISc, India), Prithvisha Gupta (Heritage Institute of Technology, India), Chinmoy Saha (IIST, India)
1571173310	Mo-TP-S3.2	Transmission Based Metasurface for Generating OAM Beams Akash Paramanik (IIT Madras, India), Madasu Venkateswara Rao (Aditya University, India), Krishnamoorthy Chitti and Subramanian Venkatachalam (IIT Madras, India)
1571173476	Mo-TP-S3.3	Loop Antenna Fed Metasurface-Assisted Microwave Sensor for Breast Tumor Detection Kritika Manglesh, Suraj Kumar Das, Animesh Biswas (IIT Mandi, India), Anirban Sarkar (IIT Bombay, India)
1571167936	Mo-TP-S3.4	A High-Efficiency Resistively Loaded Metasurface Absorber for X-Band Operation Chatla Monica and Praveen Kittu B (SRM University, India), Mark Clemente-Arenas (Universidad Nacional Tecnológica de Lima Sur, Peru), Shaik Mohammad Abzal and Rupesh Kumar (SRM University, India)
1571168775	Mo-TP-S3.5	Design and Fabrication of Interaction Cavity for Dual-Band Gyro-TWT Mukesh Alaria, Anju Kumari, Kamlesh Meena and Sanjay Ghosh (CSIR-CEERI, India),
1571169305	Mo-TP-S3.6	Design of a Spherical Cavity Based RF Pulse Compressor Ashok Bansiwal, P. Shalini, V. Nallasamy and Subrata Kumar Datta (DRDO, India)
1571172399	Mo-TP-S3.7	Deep Learning Inspired Design of Pierce Electron Gun for High Power Microwave Sources Mita Jana (DRDO, India), MV Kartikeyan (IIITDM-Kancheepuram, India), Abhishek Jha (IIT Tirupati, India), S K Datta (DRDO, India)
1571173148	Mo-TP-S3.9	Compact Multiple Band Bandpass Filter with Independent Passband Control Using Modified Mushroom Resonator Loaded SIW Cavity Soumit Samadder Chaudhury (ICFAI Foundation for Higher Education, India), Seema Awasthi (IIT Kanpur, India), Rajat Kumar Singh (IIIT Allahabad, India)
1571173182	Mo-TP-S3.10	A Schottky Diode Based Low Loss MMIC SPDT Switch Covering Full W Band Dhruba Das, Md Bodiujjaman Lasker and Sanjay Chaurasiya (SAMEER, India)
1571173206	Mo-TP-S3.11	Design of Concurrent Dual Band 3-dB Wilkinson Power Divider Using Dual-Band Real-to-Real Matching Network Shadab Rabbani (MIT Muzaffarpur, India), Sandip Kumar (Cadence Design Systems, India), Umar Farooque (MIT Muzaffarpur, India), Shriman Narayana (Rajiv Gandhi National Aviation University, India), Ajay Kumar and Pawan Kumar Jaiswal (MIT Muzaffarpur, India)
1571173393	Mo-TP-S3.12	Five-Way Microstrip Antenna Array Tapering Network with Tunability Yinyi Zhao, Arjuna Madanayake and Satheesh Bojja Venkatakrishnan (Florida International University, USA)
1571162371	Mo-TP-S3.13	A Dual-Polarized Triple-Band RDRA by Metal Strip Inclusion Sahin Islam and Susanta Kumar Parui (Indian Institute of Engineering Science and Technology, India), Goffar Ali Sarkar (Kalimpong Government Polytechnic, India)
1571172372	Mo-TP-S3.14	A Compact Substrate-Integrated CRLH Leaky-Wave Antenna for Symmetrical Wideband Beam Scanning for Ku-K Band Applications Priya Rahul, Sudhakar Sahu and Wriddhi Bhowmik (Kalinga Institute of Industrial Technology, India)
1571172491	Mo-TP-S3.15	Design and Development of a Microstrip Monopulse Tracking Antenna Feed for Telemetry Applications Vipin W. Paradkar, Aditi Nagulpelli, Vijayabhaskar N (Larsen & Toubro, India)
1571172962	Mo-TP-S3.16	A Dual Band Novel Flexible Antenna for Wearable Applications Jayanth S Balan and Priyanka Das (VIT, India), Shivam Mishra, Deepak Ram and Somak Bhattacharyya (IIT (BHU), India)
1571173247	Mo-TP-S3.17	A Dual-Band Polarization Reconfigurable Antenna at GNSS and WLAN Frequencies for UAV Applications Qurratul Ayn (NIT Andhra Pradesh, India), Yuvaraj S (IIITDM Kancheepuram, India), Kiran Kumar Gurrula (NIT Andhra Pradesh, India)

1571173287	Mo-TP-S3.18	A Low Profile Circularly Polarized Ramp Fractal Antenna for Vehicular Communication Shalikram Rajpoot and Swati MV (NIT Silchar, India)
1571173390	Mo-TP-S3.20	Empirical Formulations to Determine the Frequencies for Extracting the Geometrical Parameters of the Curved Plate from the Backscattered Data Krishna Mohan Boga and Kandimalla Divyabramham (IIIT Sri City, India), Arijit De (IIT Kharagpur, India)
1571173397	Mo-TP-S3.21	Obtaining Circular Polarization for a Printed Circular Monopole Antenna Hariharan Pippari, Ajay Prudhvi Raj Pasupula and Kamla Prasan Ray (Defence Institute of Advanced Technology, India)
1571173418	Mo-TP-S3.22	Machine Learning-Based Prediction of L-Shaped Filtering Antenna Performance Using Geometric Parameter Optimization Shraddha Hiranwar, Ujwal Hiwase and Ankita Harkare (Shri Ramdeobaba College of Engineering and Management, Nagpur, India), Mahesh P Abegaonkar (IIT Delhi, India)
1571173440	Mo-TP-S3.23	Design and Optimization of a Cylindrical Dielectric Resonator Antenna for THz Body-Centric IoT Applications Rutuja Manish Karemore, Aishwarya Soman, Ritika Chouksey, Nirzara Tijare and Ankita Harkare (Shri Ramdeobaba College of Engineering and Management, Nagpur, India), Mahesh P Abegaonkar (IIT Delhi, India)
1571173495	Mo-TP-S3.24	Design and Development of Square AMC Unit Cell Array to Improve Miniaturized Inverted-F Antenna (MIFA) Performance Varigala Sai Charan Gupta, Sasmita Kumari Nayak and Sanjeev Mishra (International Institute of Information Technology Bhubaneswar, India)
1571157457	Mo-TP-S3.25	Inhouse Tool Development to Generate Holographic Metasurface for 6G Application Pranjali Rarhi (NIT, Rourkela, India), Raju Malleboina (IISc, India), Jogesh Chandra Dash (NIT Rourkela, India), Debdeep Sarkar (IISc, India)
1571172500	Mo-TP-S3.26	A Dual-Layer Wideband R-a-T-R Rasorber for Stealth and EMI Shielding Applications Ranjith Kumar R and Parthasarathy Ramanujam (NIT, Trichy, India)
1571172536	Mo-TP-S3.27	The Synthesis of Pixelated Wideband Through Multiband Metamaterial Absorber (MA) Using Jumping Spider Optimization Algorithm for Electromagnetic Energy Harvesting Applications Prakash Ranjan and Chetan Barde, Shweta Kumari and Neha Sinha (IIIT Bhagalpur, India)
1571173104	Mo-TP-S3.28	A Metamaterial-Inspired Low-Temperature Microwave Sensor for Real-Time Temperature Monitoring S. Sheik Shameer (Sastra University, India), Yih-Chien Chen (Lunghua University of Science and Technology, Taiwan)
1571173373	Mo-TP-S3.29	Antenna Beam Steering Using the near-Field Risley Prism Method: Assessment of Rotated Cells and Supercells for Phase Transformation Metasurfaces Purna B. Samal, Karu Esselle, Dush Thalakatuna and Khushboo Singh (University of Technology Sydney, Australia)
1571173402	Mo-TP-S3.30	Compact Dual Band FSS Absorber with Wider Angular Stability for C and X Bands Murakonda Sainath and Eduru Sreelakshmi (NIT Tiruchirappalli, India), Nrusingha Charan Pradhan (Central University of Karnataka, India)
1571173462	Mo-TP-S3.31	One-Dimensional Angle Insensitive Continuous Beam-Steering Passive Coded Metasurface for Reconfigurable Intelligent Surface Applications Suraj Kumar Das, Ravi Anand and Animesh Biswas (IIT Mandi, India), Anirban Sarkar (IIT Bombay, India)
1571162882	Mo-TP-S3.32	Topology-Driven Performance Assessment of MDI-QKD in Quantum Communication Chandni Bhuarya, Rimjhim Sharma, Shalini Singh and Rajarshi Mahapatra (IIIT Naya Raipur, India)
1571172058	Mo-TP-S3.33	Resolution and Performance Characterization of THz Imaging Systems A. Mercy Latha, Kabilan K and Rishi Ranjan (CEERI, India)
1571173398	Mo-TP-S3.34	Performance Evaluation of a High Capacity MIMO-FSO System with Hybrid Modulation over Long-Distance Atmospheric Links Amudha A and Sriram Kumar (NIT Tiruchirappalli, India)
1571173479	Mo-TP-S3.35	Compact Layered FSS for Third-Order Bandpass Filtering Anitha George, Parambil Abdulla, Vaishnavi M, Karthika S, Harikrishnan P.R and Anju Iqbal (CUSAT, India)
1571160674	Mo-TP-S3.36	Study of Wave Propagation Dynamics for Sub-Terahertz Band 6G Communication Anagha Arun (NIT Rourkela, India), Rajbala Solanki (NUS, Singapore), Jogesh Chandra Dash (NIT Rourkela, India)
1571168701	Mo-TP-S3.37	Filter Bank Multicarrier System Analysis in the Presence of IQ Mismatch KM Shweta, Sanjeev Sharma and Amritanshu Pandey (IIT (BHU), India)
1571172839	Mo-TP-S3.38	Compact Wideband Circularly Polarized Microstrip Antenna with Defected Ground Structure for 5G, Wi-Fi 6E, and C-Band Applications Reshmi Dhara, Sanoj Mahato, Neelam Singh and Tshering Sangmoo Sherpa (NIT Sikkim, India)
1571165704	Mo-TP-S3.39	Scalar Load-Pull Characterization: Calibration and Measurement Techniques

		Dhiman Sarkar (IISc, India)
1571184565	Mo-TP-S3.40	Non-Invasive Monitoring of Bone Fracture Healing Using a Resonance-Based Microwave Sensor Saurav Kumar Roy, Adarsh Singh, Debasis Mitra and Rik Chattopadhyay (Indian Institute of Engineering Science and Technology, India), Souptick Chanda (IIT Guwahati, India)
1571184629	Mo-TP-S3.41	A Compact Implantable Antenna for Biotelemetry Applications in Arteriovenous Grafts Manogna Naidu Neerukattu (VFSTR University, India), Anil Kumar Nayak (VIT AP University, India), Kambiz Moez (University of Alberta, Canada), Amalendu Patnaik (IIT Roorkee, India)
1571173449	Mo-TP-S3.42	Physiological Responses of Plants to 2.45 GHz Non-Ionizing Electromagnetic Radiation Meenu L, Aiswarya S (Center for Wireless Networks & Applications, India), K. A. Unnikrishna Menon and Sreedevi K Menon (Amrita Vishwa Vidyapeetham, India)
1571173849	Mo-TP-S3.43	SWIPT Enabled IoT Applications Integrated with Overlay CCRN Considering Non-Linearity in Power Amplifiers Srijibendu Bagchi (RCC Institute of Information Technology, India), Joydeep Sengupta (VNIT Nagpur, India)
1571162628	Mo-TP-S3.44	Study of Synthetic Aperture Radar (SAR) Images Under the Purview of Speckle Noise Mitigation Vivek Kumar, Govind Murmu, and Prashant Kumar Varshney (IIT ISM DHANBAD, India)
1571166994	Mo-TP-S3.45	Design & Development of 2.2 KVA Front End Converter for Ku Band Transmitter for Troposcatter Application Khilawan Choudhary, Arun Kumar Singh and S K Datta (DRDO, India)
1571173484	Mo-TP-S3.46	Machine Learning-Assisted Signal Integrity Prediction in High-Speed Interconnects Shilpa Pavithran and Alex James (Digital University Kerala, India)

Session Code: Mo-SSP-S3

14:00-16:00

Hall: Liwa-IBL

Session Title:	Industry Business Lounge for Signature Sponsor
Session Moderator(s):	Ashutosh Kedar (DRDO, India)

Industry Session:1 14:00-15:00	 Astra Microwave Products Ltd. On a Winning Wavelength
Industry Session:2 15:00-16:00	

HIGH TEA BREAK (16:00-16:30)

Session Code: Mo-TO-S4.1

16:30-17:30

Hall: Grand Salon-1

Session Title:	Special Session-7: From Data to Revolution: AI-ML in Agriculture, Healthcare & Advances on Geoscience & Remote Sensing Applications for a Sustainable Future (Part-1)
Session Chair(s):	Deepak Mishra (IIST, India)

1571174507 16:30	A YOLO-DeepLab-EfficientNet Framework for Brain Tumour Detection, Classification, and Size Estimation in Magnetic Resonance Imaging Anjitha V, Athul O Asok, Abhishek Kumar and Sukomal Dey (IIT Palakkad, India)
1571184610 16:45	Can Adverse Disaster Be Managed Effectively?—A Quick Review Based on SAR Images Jayasree Thazhath Veedu and Rajesh R (Central University of Kerala, India)
1571188567 17:00	Towards AI-Guided Fetal Ultrasound Education: Simulation and Immersive Visualization in AR/VR Apurva Srivastava (IIST, India), Veena Iyer (Public Health Foundation of India, India), Deepak Mishra (IIST, India)
1571184663 17:15	A Novel Framework for Fall of Ground Risk Estimation Using Contactless GPR Imagery Amit Swain (TCS Research, India), Aishik Pal (IIT Jodhpur, India), Anwesha Khasnobish, Chirabrata Bhaumik and Tapas Chakravarty (TCS Research, India), Mohammad Jaleel Akhtar (IIT Kanpur, India)

Session Code: Mo-TO-S4.2

16:30-17:30

Hall: Grand Salon-2

Session Title:	Electromagnetic Environment and Interference
Session Chair(s):	D.C Pande (DRDO, India)

1571178991 16:30	Experimental Performance Evaluation of Conductive Materials for HEMP Shielding Applications in Time Domain
----------------------------	---

	Rakesh Kichouliya (DRDO, India), Saurabh Kichouliya (IIT Indore, India), Sandeep M Satav (DRDO, India)
1571184047 16:45	Conducted Emission and Radiated Emission Simulation of Power Supply Section for Automotive Applications Sriparna De and Nikhil Grover (Synopsis, India)
1571184548 17:00	Leaf-Tissue Interaction and Absorption Behavior Under 2.45 GHz Electromagnetic Radiation Exposure in Tectona Grandis Anurag Suresh, Harikrishnan V S, Aiswarya S, Meenu L and K. A. Unnikrishna Menon (Amrita Vishwa Vidyapeetham, India)
1571184755 17:15	Impact Analysis of Matching Network Quality Factor on SAW Filter Selectivity Under Closed Cavity Conditions Rahul R Menon, Avjit Roy Choudhury, Muddaser Mohiyuddin, Khan Afzaal, Senthil Kumar and Neelavathy M (ISRO India)
1571188275 17:30	A Methodology for UWB Radar Signal Emulation and Performance Assessment Mousumi Roy (Qorvo, USA); Enzo Oliveira; Marco Cavaliere, (Qorvo, Ireland)

Session Code: Mo-TO-S4.3

16:30-17:30

Hall: Atelier-1

Session Title:	Special Session-17: Packaging and heterogeneous integration at high frequencies (Part-2)
Session Chair(s):	P. Abdulla (CUSAT, India)

1571188390 16:30	Precision Micro-Assembly of RF Multi-Layer Ceramic Multi-Chip Modules Mahadev Sarkar (BEL, India), Sumit Kumar Shukla, Prakhhar Kumar Srivastava, Harimohan Singh and Satendra Kumar (ISRO, India), Rajendra K Yadav, Sunil Kumar Karra and DK Ravindra Kumar (BEL, India), Santanu Sinha (ISRO, India), Prabha S (BEL, India), Punam Tyagi (ISRO, India)
1571188431 16:45	Compensated Wire and Ribbon Bond Interconnects for Efficient W-Band MMIC Waveguide Packaging Shambo Som, Mousumi Sarkar, Sukhendu Bhanja and Arijit Majumder (SAMEER, India)
1571173272 17:00	3D Printed Bonds for Mmwave Interconnects: A Low-Complexity, Low-Loss Solution Sumin David Joseph and Edward A. Ball (University of Sheffield, UK), Jeff Kettle (James Watt School of Engineering, UK), Jonathon Harwell (University of Glasgow, UK)
1571195150 17:15	Results with a Hybrid FE-BI Solver for Coaxial Cable Coupling Analysis William Dommissie and Matthys M. Botha (Stellenbosch University, South Africa), Thomas Rylander (Chalmers University of Technology, Sweden), Jan Carlsson (Provinc AB, Sweden)

Session Code: Mo-TO-S4.4

16:30-17:30

Hall: Atelier-2

Session Title:	Emerging Microwave Technologies for Remote Sensing and Radar Applications
Session Chair(s):	Sandip Sankar Roy (ISRO, India)

1571187471 16:30	An RFSoc Based Reconfigurable Multi-Modulation Waveform Synthesizer for Next-Generation Weather Radar Applications M V Prasad Kalluri (NARL, India)
1571187498 16:45	Simulation, FPGA Realization and Real-Time Testing of Barker and Complementary Codes for Radar Applications M V Prasad Kalluri (NARL, India)
1571188481 17:00	Comparative Study of NavIC and GPS for Real-Time Drone Navigation Raj Hakani (Gujarat Technological University, India), Abhishek Rawat (Institute of Infrastructure Technology Research and Management (IITRAM), India)
1571188468 17:15	Compact Optically Transparent UWB Antenna with Dual Polarization for Diverse Applications Rabia Yahya (Nouakchott University, Mauritania), Saleh Abdullah Alfawaz (Sattam Bin Abdulaziz University, Saudi Arabia), Amal El-Ghazaly (Cornell University, USA)

Session Code: Mo-TO-S4.5

16:30-17:30

Hall: Natika

Session Title:	Microwave to THz Imaging, Sensing and Detection
Session Chair(s):	Dhruba Das (SAMEER Kolkata, India)

1571173856 16:30	CF-DAS Based Microwave Imaging with a Flexible SSPP Antenna Pritee Panigrahy, Dhruba Panda and Deepak Kumar Naik (Berhampur University, India)
1571184636 16:45	Metamaterial Inspired Coaxial Fed Two Element Antenna for Brain Tumor Detection and Localization Javaid A. Sheikh, Umhara Rasool and Saheefa Farooq (University of Kashmir, India)
1571163882 17:00	Different THz Image Reconstruction Algorithms for Compressive Sensing-Based Terahertz Single-Pixel Imaging A. Mercy Latha (CEERI, India), Bertleja S (Women's Christian College, India), Rishi Ranjan (CEERI, India)

1571184249 17:15	SSPP Line Splitter Based Planar THz Sensor for Subsurface Defect Detection Ankita Kumari, Prakrati Azad and Mohammad Jaleel Akhtar (IIT Kanpur, India)
---------------------	---

Session Code: Mo-Ind-S4

16:30-17:30

Hall: Liwa-F

Industry Exhibition

Session Code: Mo-YP-S4

16:30-17:30

Hall: Liwa-IBL

Session Title:	Young Professional Session-2
Session Chair(s):	Amit Kumar Singh (IIT Patna, India)

YP Keynote:	Lab to Startup Initiative Ashutosh Baheti (Paras Anti Drone Technologies, India)
YP Keynote:	Art of Patenting Prof. Gouri Gargate (IP Law and Management, IIT Kharagpur)

MONDAY-Dec 15, 18:00-20:00

INAUGURATION

WELCOME DINNER (20:00-21:00)

DAY-3

DECEMBER 16, 2025

Highlights

- 19 Technical Sessions
- 1 Poster Session
- 2 Industry Sessions
- Space Cluster Session
- Intersociety Panel Discussion
- Master Classes
- Industry Business Meeting
- Chapter Chair Meeting
- Mentor-Mentee Program

Session Title:	Inter-Society Technology Panel -1: RF for a Sustainable Future
Session Chair(s):	Sulekha Chattopadhyay (California Air Resources Board, USA)
Speaker:1 08:30	Y.V.N. Krishnamurthy (IIT Tirupati & ISRO, India)
Speaker:2 08:54	Raquel Castro Madureira (Universidade de Aveiro, Portugal)
Speaker:3 09:18	Diego Masotti (University of Bologna, Italy)
Speaker:4 09:42	Steven Reising (University of Colorado, USA)
Speaker:4 10:06	Promod K. Pandey (UC Davis, USA)

Session Title:	RF Materials and Quantam Electromagtics
Session Chair(s):	Joseph Bardin (University of Massachusetts, USA) & KJ Vinoy (IISc, India)
Keynote: 08:30	Building a quantum computer using microwave technology Joseph Bardin (University of Massachusetts, USA)
1571185045 09:00	Electromagnetic Sensing of Solid Structures for Damage Identification Subhadeep Basu and Mohammad Jaleel Akhtar (IIT Kanpur, India)
1571183927 09:15	ROC Studies for 8-Antenna Space Time Block Code Based Quantum Radar Preksha Dey (Indian Institute of Engineering Science and Technology, India), Saikat Chandra Bakshi (NIT Calicut, India), Ankita Pramanik (Indian Institute of Engineering Science & Technology, India)
1571183528 09:30	Closed Loop Performance Evaluation of PLL-Based RF Synthesizer in Rubidium Atomic Clocks Deepak Attri, Jaydeep Kaintura and Sarathi Mandal, Maulik L Bhavsar, Shilpi Soni and M. Senthilkumar (ISRO, India),
1571173452 09:45	A Very High Order (90MHz × 76) SRD Multiplier for Miniature Space Borne Rubidium Atomic Clock Biplab Ghosh, Bikash Ghosal and Sarathi Mandal, Maulik L Bhavsar, Shilpi Soni and M. Senthilkumar (ISRO, India)
1571188392 10:00	Structural and Electromagnetic Characterization of Al, Co, and Y-Substituted Gadolinum Iron Garnet for Microwave Frequency Applications Brijesh Bharti, Somak Bhattacharyya, Pradip Kumar Roy (IIT BHU, India)
1571183588 10:15	Scanning Microwave Microscopy of Quantum Materials with a Nano-Coaxial Probe Sangjun Noh (University of California Irvine, USA), Clement Lenoir and Mohamed Sebbache (IEMN CNRS, France), Philip Hemmer (Texas A&M University, USA), Lin Hung-Ju and Johannes Hoffmann (Federal Institute of Metrology METAS, Switzerland), Kamel Haddadi (University of Lille, France), Peter Burke (University of California at Irvine, USA)

Session Title:	Special Session-10: Integration of Advanced Materials for Microwave / mmwave / THz applications
Session Chair(s):	Maurizio Bozzi (University of Pavia, Italy) & Guru Subramanyam (University of Dayton, USA)
Keynote: 08:30	Emerging Trends in Technologies and Materials for Microwave Communication and Sensing Maurizio Bozzi (University of Pavia, Italy)
1571184595 09:00	Ultra-Fast Sintering of (MgTiFeCuZn)3O4 High-Entropy Spinel Oxides for Microwave Applications Arunkumar B R, Muthukumar Abishek and Mohan Ramasamy (IIT Madras, India), Dharma Teja Teppala and Emanuel Ionescu (Technical University of Darmstadt, Germany), Kavitha Arunachalam and Ravi Kumar (IIT Madras, India)
1571184627 09:15	Computation of Non-Reciprocity in the Magnet-Free Microstrip Transmission Line Maifuz Ali (DSPM IIIT Naya Raipur, India); Khan Masood Parvez (Aliah University Kolkata, India); Shiv Narain (Dr RML Avadh University, India); Ashwani Kumar (University of Delhi, India); Ravi Kumar Arya (Zhongshan Institute of Changchun University of Science and Technology, China); Ganga Ram Mishra (Dr RML Avadh University, India)
1571184764 09:30	Investigation of Magnesium and Calcium Titanate Composites at Microwave Frequencies for Wide Band Dielectric Resonator Applications

	Reshma Kuppili, Mohan Ramasamy, Ravi Kumar and Kavitha Arunachalam (IIT Madras, India)
1571181933 09:45	Groove-Gap-Waveguide Technology for RF Filters: Recent Advances and Design Trends Mohamed Malki, Li Yang, Roberto Gómez-García (University of Alcala, Spain)
1571184773 10:00	Microwave Humidity Sensor Based on PDMS Integrated CSRR Structure Prakrati Azad, Ankita Kumari and Mohammad Jaleel Akhtar (IIT Kanpur, India)
1571188135 10:15	Highly Flexible Lightweight Silver Nanowire-Based Sandwiched Thin Film for EMI Shielding Applications Anshuman Choudhary and Mohammad Jaleel Akhtar (IIT Kanpur, India)

Session Code: Tu-SS-S1

08:30-10:30

Hall: Grand Salon-1

Session Title:	Focus Session on Small Satellite
Session Chair(s):	Priyadarshnam H (IIST, India) & Eva Rajo-Iglesias, (University Carlos III of Madrid, Spain)

Speaker:1 08:30	Recent Data Downlink Antenna Developments for NanoSats and SmallSats Nelson J G Fonesca (Anywaves, France)
Speaker:2 08:54	Challenges on the use of gap waveguide technology for satellite communication Eva Rajo-Iglesias (University Carlos III of Madrid, Spain)
Speaker:3 09:18	Design of the ngVLA telescope / Design of antennas for high-performance radio astronomy Dirk I.L. de Villiers (Stellenbosch University (SU), South Africa)
Speaker:4 09:42	Impacts of Global GNSS Signal Interference monitored by Space-Based ADS-B Surveillance Systems Jan Budroweit (German Aerospace Centre (DLR), Germany)
Speaker:5 10:06	RF & Microwave Communication Systems for LEO Small Satellites Priyadarshnam H (IIST, India)

Session Code: Tu-TO-S1.3

08:30-10:30

Hall: Grand Salon-2

Session Title:	Special Session-15: New Frontiers in Advanced Beam Forming using Reconfigurable and Modulated Metasurfaces (Part-1)
Session Chair(s):	Guido Valerio (Sorbonne Université, France) & Amit Kumar Singh (IIT Patna, India)

Invited: 08:30	Modelling challenges of metamaterial-based waveguides and leaky-wave antennas for sensing applications Guido Valerio (Sorbonne Université, France)
1571183983 09:00	Impact of Realistic Design on the Performance of Binary Holographic Metasurface Antennas Piyush Kumar Mishra (IISc, India), Debaprasad Barad (Astra Microwave Products Ltd, India), Debdeep Sarkar (IISc, India)
1571173001 09:15	Dual-Feed Multi-Polarized Modulated Metasurface Antenna with Port-Switching Reconfigurability Swarnadipto Ghosh, Kamil Yavuz Kapusuz and Mamoun Guenach (University of Ghent, Belgium), Chinmoy Saha (IIST, India), Sam Lemey (University of Ghent, Belgium)
1571183918 09:30	Characterization of Modulated Metasurface Using Multibit, Uniform and Non-Uniform Quantization Ishaan Kedar (VIT, India), Swarnadipto Ghosh (University of Ghent, Belgium), Chinmoy Saha (IIST, India)
1571184962 09:45	Design and Analysis of Frequency Agile Multi-Dielectric Stacked Circularly Polarized Holographic Metasurface Antenna Subhadrita Ghosh (Queen's University Belfast, UK), Swarnadipto Ghosh (University of Ghent, Belgium), Deepshikha Mahapatra and Chinmoy Saha (IIST, India)
1571173212 10:00	A Generic Evolution Towards Linear to Circularly Polarized Single and Multibeam Modulated Metasurface Antennas Swarnadipto Ghosh (University of Ghent, Belgium), Subhadrita Ghosh (Queen's University Belfast, UK), Chinmoy Saha (IIST, India)
1571188553 10:15	Performance Characterization of an Unequally Modulated Dual Beam Dual Polarized Holographic Metasurface Antenna Anjana Krishna (IIT Jodhpur, India), Swarnadipto Ghosh (University of Ghent, Belgium), Ashwani Kumar and Soumava Mukherjee (IIT Jodhpur, India), Chinmoy Saha (IIST, India)

Session Code: Tu-TO-S1.4

08:30-10:30

Hall: Atelier-1

Session Title:	Multifunctional MIMO Antennas
Session Chair(s):	Debdeep Sarkar (IISc, India) & Sanghamitro Das (Jones Microwave Inc., Canada)

1571184885 08:30	Design of Metamaterial Based UWB MIMO Antenna
---------------------	---

	Maddi Tarun Kumar and Anantha Bharathi (Osmania University, India), G. Ravi Shankar Reddy (CVR College of Engineering, India), Srilakshmi Aouthu (Vasavi College of Engineering, India)
1571169349 08:45	Design and Analysis of K-Band MIMO RADAR Antenna with Radome for Automotive Application Yasha Mandawat, Ananya R Bhat and A Mahesh (RV College of Engineering, India), Debdeep Sarkar (IISc, India)
1571170323 09:00	A Quad-Port Planar Compact Triple-Band MIMO Antenna with Isolation Improvement Dheeraj Pandey and Reshmi Dhara (NIT Sikkim, India), Aamir Shafi Khan and Surajit Kundu (NIT Jamshedpur, India)
1571170337 09:15	A Compact Quad-Port MIMO Antenna with Isolation Augmentation for n77/n78 Band Applications Dheeraj Pandey (NIT Sikkim, India), Ramakrishna Mahapatra (NIT Jamshedpur, India), Reshmi Dhara (NIT Sikkim, India), Surajit Kundu (NIT Jamshedpur, India)
1571173211 09:30	A Novel Spiral Radiator-Based Quad-Port MIMO CP Antenna Using Characteristic Mode Analysis (CMA) for Wi-Fi 6E Applications Biku Raut, Bikash Kumar Santi, Deepak Kumar Naik and Dhruva Panda (Berhampur University, India)
1571173626 09:45	Unified-Shared-Reflecto-Radiative Planar 4-Port MIMO Antenna Utilized for Potential Golden Band of 6G Access Ameeya Muduli, Sudhakar Sahu and Asutosh Mohanty (KIIT University, India)
1571173680 10:00	A Compact Lamp-Shaped Four Port MIMO Antenna for 5G and 6G Wireless Technologies Megha Mahapatra and Arvind Kumar (NIT Jamshedpur, India), Dheeraj Pandey (NIT Sikkim, India), Dilip Kumar and Surajit Kundu (NIT Jamshedpur, India)
1571182496 10:15	Convolutional Slot Embedded MIMO Antenna for 5G NR Applications Priyanka Das, Midhuna Sri I, Deepika R and Shreya S (VIT, India)

Session Code: Tu-TO-S1.5

08:30-10:30

Hall: Atelier-3

Session Title:	Smart Antennas: II
Session Chair(s):	Akash Bansal (Loughborough University, UK) and William Whittow (Loughborough University, UK)

1571184574 08:30	Compact Dual-Band Chipless RFID Tag Antennas with Open-Ended Slot Structures for UHF and Microwave Applications Chaitanya Kumari Vunnavu, Bharath Reddy Gudibandhi, Bandi Anusha Sumanthika (VIT-AP, India)
1571184710 08:45	Design of a Slot-Loaded Microstrip Antenna for Telemetry in Hypersonic Boost Systems Chethanarama L and V Srinivasa Rao (DRDO, India), Harsh Sanjay Kanoje (VIT Bhopal University, India)
1571184789 09:00	Wideband Homogeneous Lens-Loaded Cavity Backed SIW Lens Antenna for Satellite Communications and Defense Applications Nidhi Tewari (Jaypee Institute of Information and Technology, India), Aakash Bansal (Loughborough University, UK), Shweta Srivastava (Jaypee Institute of Information and Technology, India), William Whittow (Loughborough University, UK)
1571184882 09:15	Double-Stubbed Annular-Slotted Planar Inverted-F Antenna for Microsatellite Communications Achanta Sai Sravan and Kommavarapu Vsns Durga Praveen (IIITDM Jabalpur, India), Kapil Saraswat (Central University of Rajasthan, India), Bibhuti Bhusan Padhy (DRDO, India), Trivesh Kumar (IIITDM Jabalpur, India)
1571184886 09:30	Design of UAV Based GSM Band Telemetry Antenna with High-Gain Employing Superstrate Approach Suneel Varma, Debaprasad Barad, Balachary Molupogu and Goura Snehalatha (Astra Microwave Products Ltd, India)
1571184916 09:45	Design of a Compact Y-Shaped Self-Triplexing Antenna Backed by SIW with Post-Fabrication Tuning Capability Vaishali Perumal and Sounik Kiran Kumar Dash (SRM Institute of Science and Technology, India)
1571184949 10:00	Robust Wearable Cotton-Based Chipless RFID Tag for Identification Purposes Manbir Kaur and Mayank Agarwal, Rajesh Khanna (Thapar University, India)
1571188647 10:15	Analysis of Adaptive Antenna System for UAV Based COMINT Payload Yasho Vijay Singh Yadav, Hariharan Pippari, Adiraju Lakshmi Sowmya, Dilip Dave, TVS Ram and Bharath Simha Reddy Pappula (Azista Industries, India)

Session Code: Tu-TO-S1.6

08:30-10:30

Hall: Natika

Session Title:	AI/ML Integrated RF & mm-wave systems
Session Chair(s):	Kaushik Sengupta (Princeton Materials Institute, USA) & B.S Manoj (IIST, India)

Invited: 08:30	AI-Enabled RF/mmWave IC Design: Can we Design a Chip a Day and Discover New Design Spaces? Kaushik Sengupta (Princeton Materials Institute, USA)
1571173317 09:00	Quantum-Enhanced Radar Systems for Indoor Occupancy Detection Using Digital Twin Simulations Sebastian Ratto V and Ahmed N. Sayed (University of Waterloo, Canada), Jose R Rosas-Bustos (Applied Quantum Technologies (AQT), Canada), Arien Sligar (Ansys Inc., USA), Omar Ramahi and George Shaker (University of Waterloo, Canada)
1571173583	Optimization of Ka-Band Multi-Layer Radome Using Differential Evolution Algorithm

09:15	Santhosh A K and Sanjika Devi (Amrita Vishwa Vidyapeetham, India), Manjushree Tamang (DRDO, India), Naveen Kumar Vishwakarma (DRDO, India), Dhanesh G. Kurup (Amrita University, India)
1571173782 09:30	Comparative Study of Machine Learning Methods for Channel Estimation for RIS-Aided Systems at 28 Ghz and 60 Ghz Using DeepMIMO RayTracing Dataset Mohammed Faariq Siddiqui, Ahmer Haider, Syed Tajuddin, and NazeerUnnisa Qureshey (MuffakhamJah College of Engineering and Technology, India)
1571182424 09:45	mmWave Radar-Based Human Activity Recognition via Reinforcement Learning Yash Soni (CSIR-CEERI, India) and Dhiraj (AcSIR, India)
1571184666 10:00	FPGA Based Adaptive Beamforming for RIS Using Deep Learning Deepak, Akhila Gouda, Mukul Lokhande, Santosh Kumar Vishvakarma and Saptarshi Ghosh (IIT Indore, India)
1571185775 10:15	Energy-Efficient Ultra-Reliable Low-Latency 6G Communication via Cooperative UAV-RIS-Assisted OTFS Networks and Hybrid PSO-DRL Optimisation Ragesh GK and Pretty Joy (IIIT Kottayam, India), Oluwakayode Onireti (University of Glasgow, UK), Debarati Ganguly (IIIT Kottayam, India), Manoj Bs (IIST, India)

Session Code: Tu-Ind-S1

08:30-10:30

Hall: Liwa-F

Industry Exhibition

Session Code: Tu-TP-S1

08:30-10:30

Hall: Liwa-F

Session Title:	Technical Poster Session:2
Session Chair(s):	Jogesh Chandra Dash (NIT Rourkela, India)

1571173802	Tu-TP-S1.1	Surface Resistance Mapping of Graphite Battery Cathodes with a 10 GHz Inverted Single Post Dielectric Resonator Scanner Lukasz Nowicki (QWED, Poland), Corinne Nouvellon (Materia Nova, Belgium), Malgorzata Celuch (QWED, Poland), Fabien Monteverd (Materia Nova, Belgium), Bartlomiej Salski (Warsaw University of Technology, Poland)
1571181413	Tu-TP-S1.2	Dual Sequentially Rotated Feed CP Antenna Array Anurag Sahu and Arvind Kumar (Visvesvaraya NIT, India)
1571183943	Tu-TP-S1.3	Spin-Wave Mediated Microwave Antennas: A New Paradigm in Smart Antenna Engineering Rakesh Kumar Nayak and Abhishek Maurya (IIT BHU, India), Diptiranjana Samantaray (University of Delhi, India), Somak Bhattacharyya, Rajeev Singh and Biswanath Bhoi (IIT BHU, India)
1571173404	Tu-TP-S1.4	Design of Helix SWS for Compact Ka-Band Space TWT Dimple Yadav (Banasthali Vidyapith, India), A. Mercy Latha (CEERI, India), Meenu Kaushik and Vishant Gahlaut (Banasthali Vidyapith, India), Sanjay Ghosh (CEERI, India)
1571173410	Tu-TP-S1.5	Realization of Temperature Compensated L2 Band Coaxial Circulator Md Ehsanul Haque and Ashish Jain (ISRO, India)
1571173417	Tu-TP-S1.6	An LCR Readout with Frequency Switching for Two-Terminal Multimodal Sensors Lekshmi V, Ranjith K R and Jose Joseph (Digital University Kerala, India)
1571173423	Tu-TP-S1.7	3-Watt Compact X-Band GaN HEMT Front End MMIC Pritam Kumar Sinha, Akhilendra Krishna, Rakhi Kumari, Poonam Singh, Umakant Goyal (DRDO, India), Sangam Bhalke (GAETEC, India), Devendra Verma, and Meena Mishra (DRDO, India)
	Tu-TP-S1.8	Dual-Band SIW Bandpass Filter with Spurious Mode Suppression via Orthogonal Feeding RVNR Suneel Krishna, Sankar Peddapati and Krishna Chaitanya Anantatmakula (NIT Andhra Pradesh, India), Yuvaraj S (IIITDM Kancheepuram, India)
1571173518	Tu-TP-S1.9	PLL Implementation for IF Stability in Interferometer Kiran Patel, UmeshKumar Chandulal Nagora, Sagar Zope and Jinto Thomas (Institute for Plasma Research, India)
1571173536	Tu-TP-S1.10	GaAs-Based Low Noise Amplifier Design for X-Band Phased Array Radar Sowjanya K and Paramesha P (Central University of Karnataka, India)
1571173874	Tu-TP-S1.11	Self-Spurious Coupling Compensation Technique for Coaxial Cavity Resonator Filter Dinesh Kumar Singh, Dharmendra Singh and Jignesh S. Bhatt (IIIT Vadodara, India)
1571173910	Tu-TP-S1.12	Compact Broadband 1/64 Mode SIW 4 Way Power Divider with Multiple Feed Strategies and Extensions to 3 and 5 Way Power Divisions Soumyadeep Ghosh and Sukomal Dey (IIT Palakkad, India)
1571173584	Tu-TP-S1.13	High-Isolation Multiband MIMO Mobile Phone Antenna for 2G, 3G, 4G, 5G, and 6G Applications Sonali Arya, Prashant Kumar Singh, Jyoti and Ashwani Kumar (University of Delhi, India)

1571173615	Tu-TP-S1.14	Angle-Dependent BER Performance of Time-Modulated Linear Antenna Arrays with Multi-Harmonic Beams Kannarao Shatarasi, Gopi Ram and Arun Kumar Gande (NIT Warangal, India), Guy Vandenbosch (Katholieke Universiteit Leuven (KU Leuven), Belgium)
1571173687	Tu-TP-S1.15	Compact UWB MIMO Antenna Using Fractal Structures for Isolation Improvement Jeet Banerjee (Adamas University, India), Rowdra Ghatak (NIT Durgapur, India)
1571173795	Tu-TP-S1.16	Wide Scan Stacked Patch Phased Array Antenna for Tile Array Naveen Kumar Vishwakarma, Pooja S. V., Pramod Kumar, Manjushree Tamang and Beenamole K S (DRDO, India)
1571174655	Tu-TP-S1.17	Semi-Circle Monopole Antenna with Tilted Microstrip Feed for Circularly Polarized and X-Band Gain Boosting Kalyan Mondal and Thingbaijam Sharaju (NIT Manipur, India)
1571175598	Tu-TP-S1.18	An Efficient Lightweight All-Metal 1-50GHz Vivaldi Antenna for Airborne Application Krithika Penagaluru (BMS College of Engineering, India), Vijay Kumar Sutrar (DRDO, India)
1571180535	Tu-TP-S1.19	Isolation Enhancement of Microstrip Patch Antenna Array Using M-Type Barium Hexaferrite for Continuous Wave Radar Applications Navdeep Singh, Sankarsan Padhy and Anil Kumar Chaubey (CSIR-Institute of Minerals and Materials Technology, India)
1571183597	Tu-TP-S1.20	CFD Based UAV Aerodynamic Profiling with Concurrent UAV Detection Using FMCW Radar Anudeep Bellary, Srivani Kothidigi, Humesh Sanaboyina and Santosh Kumar Pradhan (Altair Engineering India Pvt. Ltd., India)
1571183616	Tu-TP-S1.21	Self Decoupled Arrow Head Shaped MIMO Antenna for Wi-Fi 6E Applications Harikrishnan P R, Parambil Abdulla, Anitha George and Anju Iqbal (CUSAT, India)
1571183861	Tu-TP-S1.22	Choke Ring Loaded Crossed Dipole Antenna with Low Multipath Effects Rachita Tripathy (NIT Rourkela, India), Sravan Kumar Sagi (ISRO, India), Sajith P (ISRO, India), Situ Rani Patre (NIT Rourkela, India)
1571183937	Tu-TP-S1.23	Design and Analysis of a 2x2 Circularly Polarized Microstrip Antenna Array Using Different Substrates for IoMT Applications Sasmita Kumari Nayak, Varigala Sai Charan Gupta and Sanjeev Mishra (International Institute of Information Technology Bhubaneswar, India)
1571184058	Tu-TP-S1.24	A QV-Band Dual-Polarized Cassegrain Reflector Antenna for New Space Satellite Ground Station Applications Alexander Chen, Yonghui Shu and Dhanraj Doshi (Eravant, USA)
1571184164	Tu-TP-S1.25	Investigation on Printed Circular Loop Antenna and Its Comparison with Annular Ring Monopole Antenna Ajay Prudhvi Raj Pasupula, Kamla Prasan Ray and B H V S Narayana Murthy (DIAT, India)
1571173483	Tu-TP-S1.26	A Broadband Hybrid Metamaterial Microwave Absorber for Stealth Applications Kanupriya (AcSIR, India), Shreya Negi, Dhairya Singh Arya and Nalini Pareek (CSIR CSIO, India)
1571173636	Tu-TP-S1.27	Multifunctional Reflective Polarization Converter Using Ultrathin FSS for X/Ku/K Bands Vishal Singh, Sagar Bhattacharya and Thottappan M (IIT BHU, India)
1571173685	Tu-TP-S1.28	Narrowband, Dualband, and Broadband SRR Metamaterial for Mitigation of RF Blackout Nagavelly Tarun Teja and Amarjit Kumar (NIT Warangal, India)
1571173926	Tu-TP-S1.29	Dual Polarised Metasurface Antenna with Multi-Beam Using Surface Wave Duplexing Ravikanth Thanikonda, Enrica Martini and Stefano Maci (University of Siena, Italy)
1571182172	Tu-TP-S1.30	Characteristic Mode Assisted Design of Dual-Band 5G-Compatible Frequency Selective Surface Arun Kumar Dhupam (Raghu Engineering College, India), Sandip Ghosal and Sudipta Maity (NIT Rourkela, India)
1571182553	Tu-TP-S1.31	Design and Analysis of a Polarization and Frequency-Selective Reconfigurable Metasurface Roopeshwar Megadula, Jeet Ghosh, Gopinath Samanta (LNM Institute of Information Technology, India), Padmaja Bikkuri (Gitam University, India)
1571183498	Tu-TP-S1.32	Millimeter-Wave Dielectric Huygens' Metasurface for Symmetric Beam Splitting Abhishek Sharma (IIT Jodhpur, India)
1571183797	Tu-TP-S1.33	Design of a Dual Passband Metasurface in L Band Vishnu Kumar Mishra and Ravi Kumar (IIT BHU, India), Biswajeet Mukherjee (Delhi University, India), Vinit Kumar, Praveen Ambati and Jolly Dhar (ISRO, India), Thottappan M and Somak Bhattacharyya (IIT BHU, India)
1571183819	Tu-TP-S1.34	A Wideband Perfect Terahertz Absorber Using Graphene Based Metasurface Nikita Das (Guru Ghasidas Vishwavidyalaya, Bilaspur, India), Ajeet Singh Verma and Somak Bhattacharyya (IIT BHU, India)
1571173930	Tu-TP-S1.35	Reconfigurable Microwave Hybrid Systems via Magnetization-Tuned Photon-Magnon Coupling

		Sachin Verma (IIT BHU, India), Garima Yadav (NIT Rourkela, India), Abhishek Maurya, Rajeev Singh and Biswanath Bhoi (IIT BHU, India)
1571188611	Tu-TP-S1.36	Effect of F/D Ratio on Collimation: A Quantitative Study Naren Sabarish Baskaran, Krishnamoorthy Chitti and Subramanian Venkatachalam (IIT Madras, India)
1571183385	Tu-TP-S1.37	Design of Circularly Polarized Graphene-Based SIW-MIMO CDRA for THz Applications Yakub Banoth and Amarjit Kumar (NIT Warangal, India), Dmitry Kholodnyak (Saint Petersburg Electrotechnical University LETI, Russia)
1571183426	Tu-TP-S1.38	Performance Analysis of Photonic Architectures for Radio Frequency Self-Interference Cancellation in Frequency Modulated Continuous Wave Radars Mahesh Lunavath, Rupam Biswas, Chiranjeevi Damacherla and Ranu Tyagi (BEL, India)
1571184831	Tu-TP-S1.39	Finite Element Analysis of Time-Dependent Gross-Pitaevskii Equation Madhu Bhatt and Sayak Bhattacharya (IIIT Delhi, India)
1571173067	Tu-TP-S1.40	Tracking and Classification of Activities Using Wearable UWB Technology with CRLB-Based Estimation Performance Analysis Yashika Chauhan and Deepika Sipal (Delhi Technological University, India)
1571173094	Tu-TP-S1.41	Highly Directive V-Band Fabry-Perot Cavity Antenna for Train-to-Train Communication Zahoor A. Pandit Jibran (Université Gustave Eiffel, France), Kumud Ranjan Jha (Shri Mata Vaishno Devi University, India), Satish K. Sharma (San Diego State University, USA)
1571173576	Tu-TP-S1.42	MIMO-OTSM: LMS Based Decision Feedback Equalization in Quasi Static Channels Sapta Girish Babu Neelam (BEL, India)
1571167965	Tu-TP-S1.43	An Antenna Testing System for Antenna Array Applications Solon Spiegel and Neeraja Peddinti (VASBEAM PVT LTD, India)
1571173115	Tu-TP-S1.44	Broadband Emissivity Analysis of Black Body Target Materials for Calibration of Michelson Interferometer Diagnostic Abhishek Sinha (Institute for Plasma Research, India), Abdul Shabir (Centre for Reliability Science and Technologies, Taiwan), Surya Pathak and Kumar Ajay (Institute for Plasma Research, India)
1571184977	Tu-TP-S1.45	THz Biomedical Sensing for Early Cancer Detection Using Plasmonic and Slot Nanoantennas Chayanika Baishya and Amarnath Kumar (IIT Guwahati, India), Sisir Kumar Nayak and Harshal B. Nemade (IIT Guwahati, India)
1571173533	Tu-TP-S1.46	Theoretical and Simulation Based Analysis of Biochar-Polymer Based Composite for Electromagnetic Shielding Application Tejaswini Narendra Patel, Mahesh B Hasani, Purnanand Bhale and Kirti Inamdar (S.V.N.I.T., India)
1571184097	Tu-TP-S1.47	Defected Ground Metasurface for RF Energy Harvesting Vineesh K Vinod, Aneesh Kumar R and Chinmoy Saha (IIST, India)
1571173505	Tu-TP-S1.48	Comparison of Schumann Resonance on Mars and Venus Roshni M and Jayesh Pabari (Physical Research Laboratory, India)
1571173578	Tu-TP-S1.49	Time-Series Forecasting of Sea-Surface Chlorophyll, Salinity, and Temperature Using Landsat OLI Sukanya Mukherjee, Bharath Haridas Aithal and Subhadip Dey (IIT Kharagpur, India)
1571184018	Tu-TP-S1.50	Re-Defining R: Resource-Efficient Modulation Classification Using Bin-Based Envelope Features Srinivas Rahul Sapireddy (University of Missouri Kansas City, USA), Surekha G (Gokaraju Rangaraju Institute of Engineering and Technology, India), Hemanth Bandi (University of Minnesota Twin Cities, USA)

TEA BREAK (10:30-11:00)

Session Code: Tu-PI-S2.1

11:00-13:00

Hall: Vembanad-1, 2 & 3

Session Title: Plenary Session:2

Session Chair(s): Jawad Y. Siddiqui (RMC, Canada)

Plenary Talk:4 11:00	From Darwin to Swarms to Brainstorms: Evolutionary Optimization for Modern Electromagnetic Engineering Design Yahya Rahmat Samii (University of California, Los Angeles, USA)
Plenary Talk:5 12:00	Hero Myth in Science Brian Brophy (Caltech Theater Director and JPL Story Coach, USA)

LUNCH BREAK (13:00-14:00)

Session Code: Tu-CCM-S3

14:00-16:00

Hall: Vembanad-1

Chapter Chair Meeting

Session Code: Tu-SC-S3

14:00-16:00

Hall: Vembanad-2

Session Title:	Space Cluster
Session Chair(s):	Dipankar Banerjee (IIST, India)
Speaker: 1 14:00	Nilesh M. Desai, Director, Space Applications Centre (SAC), India
Speaker: 2 14:30	Dinesh Kumar Singh, Director, Human Space Flight Centre (HFSC), India
Speaker: 3 15:00	M Sankaran, Director, U.R. Rao Satellite Centre (URSC), India
Speaker: 4 15:30	Prakash Chauhan, Director, National Remote Sensing Centre (NRSC), India

Session Code: Tu-TO-S3.1

14:00-16:00

Hall: Vembanad-3

Session Title:	New Frontiers in Power Amplifier Designs
Session Chair(s):	Anding Zhu (University College Dublin, Ireland) & Immanuel Raja (IIST, India)
Keynote: 14:00	Next Generation RF Power Amplifiers: Efficiency and Linearity Challenges Anding Zhu (University College Dublin, Ireland)
1571173900 14:30	Generalized Continuous Class F Power Amplifier of Higher Order for VHF Communication S Indumathi, Kushan Chakraborty and Sion P (BEL, India)
1571188519 14:45	SIW-Based off-Chip Power Combining Using GaN MMIC Power Amplifier for Ku-Band Applications Manish Singh, Ganesh Bargaje, Avinash Singh, Mohammad Abdul Shukoor, Tarun Kumar Suretia and Karun Rawat (IIT Roorkee, India)
1571181925 15:00	A Package-Aware Balanced MMIC Power Amplifier with Passive Load Modulation for Efficient Back-off in Ka-Band Application Ritan Das, Santhosh Raj R, and Basudev Majumder (IIST, India)
1571188492 15:15	Design and Implementation of a High-Peak Power Inverted Doherty Power Amplifier for UHF Bands Ahmad Zakaria Ahmad (IIT Roorkee, India), Mohammad Abdul Shukoor (IIT Roorkee, India), Dushayant Kumar Sharma (Wipro Limited, India), Karun Rawat (IIT Roorkee, India)
1571188405 15:30	Design and Development of 190 Watt Solid-State Pulsed Power Amplifier with at X-Band Aritra Banerjee, Souma Chatterjee, Arun Kumar and Mrinal Rajak (SAMEER, India)
1571184222 15:45	Schottky Barrier Diode Based Millimeter-Wave MMIC Frequency Triplers Shrija Bhattacharyya, Anamiya Bhattacharya, Harshita Tolani, Latheef Shaik, Prantik Chakraborty, Mukesh Patel and Ch.V.N. Rao (ISRO, India)

Session Code: Tu-TO-S3.2

14:00-16:00

Hall: Grand Salon-1

Session Title:	Dielectric Resonator Antennas-I
Session Chair(s):	Debatosh Guha (University of Calcutta, India) & Amalendu Patnaik (IIT Roorkee, India)
Keynote: 14:00	Fascinating Story of an Amazing Antenna Technique Debatosh Guha (University of Calcutta, India)
1571168266 14:30	Ultrawideband Eight Shaped 3D Printed DRA for B5G Application Sourav Sarka, Sidhartha Kumar Sahu, Bhushan Ballav Pathak and Rakhesh Singh Kshetrimayum (IIT Guwahati, India)
1571172411 14:45	Enforced PEC Boundary Condition to a DML Fed RDRA: a Tri-Mode Tri-Band RDRA for Wireless Applications Goffar Ali Sarkar (Kalimpong Government Polytechnic, India), Sahin Islam and Susanta Kumar Parui (Indian Institute of Engineering Science and Technology, India), Syed Enamur Rahaman (Lam Research, India)
1571173492 15:00	Prediction Modeling for 4 GHz Rectangular Dielectric Resonator Antenna Using Machine Learning Algorithm

	Ankita Harkare, Kalyani Bobade, Ishika Shyam Patne and Anshika Jain (Shri Ramdeobaba College of Engineering and Management, India), Ankit Bhurane and Ashwin Kothari (VNIT Nagpur, India)
1571173503 15:15	Reduction of Mutual Coupling in Closely Spaced Dielectric Resonator Antenna Array Using Folded Ground Plane for MIMO Applications Venkatesan Kasinathan and Praveen Kumar AV (BITS Pilani, India), Deepu V Nair (Cambium Networks, India)
1571184476 15:30	Resonant Frequency of a Sectoral Cylindrical Dielectric Resonator Antenna Sudipta Maity (NIT Rourkela, India)
1571185054 15:45	Source of Radiation of a Dielectric Resonator Antenna: Technique to Verify the Theoretical Proposition Sanjit Mukherjee and Soumojeet Basak (University of Calcutta, India), Sk Rafidul (HCL Technologies, India), Debatosh Guha (University of Calcutta, India)

Session Code: Tu-TO-S3.3

14:00-16:00

Hall: Grand Salon-2

Session Title:	Multifunctional Planar and Non-planar Antennas
Session Chair(s):	Beenamole K S (DRDO, India) & Sumit Kumar Shukla (ISRO, India)

1571173491 14:00	Polarization Purity Enhancement of Asymmetric Microstrip Pixelated Antennas Priyanka Kumari, Karthik P B, Aggraj Gupta, Priya Shukla and Uday Khankhoje (IIT Madras, India)
1571173510 14:15	Gain Enhancement of Patch Antenna with Engineered Metasurface for C-Band Application Bidhan Chandra Das, Jegan R Mani (TSC Technologies, India)
1571173861 14:30	High-Gain Super Wideband (SWB) Antipodal Vivaldi Antennas: Design and Comparative Analysis of Parasitic Element Geometries Jyoti, Ashwani Kumar and Amit Birwal (University of Delhi, India)
1571179093 14:45	Design and Analysis of a High-Gain Slot-Loaded Microstrip Patch Antenna for Sub-6GHz Applications Shreyas Singh (University of Delhi, India), Shakthi Priya M, Nalini Pareek and Dhairya S Arya (CSIR-CSIO, India)
1571179119 15:00	Linearly Tapered Slot Antenna for 5G Sub-6GHz Application Satyajit Chakrabarti, Vivek Kumar Singh, Sreenivasan M (SAMEER, India)
1571184045 15:15	A Wideband Balanced Antipodal Vivaldi Antenna for Direction Finding Application Madhavi Chandra, Umadevi R, Ramakrishna B, Sairam C, Sudhir H and Chakravathy M (DRDO, India)
1571184835 15:30	Broadband, Low-Profile Magneto-Electric Dipole Using Cavity-Backed Defected Ground Structure Meera Prajapati (Pandit Deendayal Energy University, India), Rishi Mishra and A. R. Harish (IIT Kanpur, India)
1571184866 15:45	Extremely Low-Profile Multi-Band Monopole Antenna for IoT Applications Anvesh Pandey, Yogesh Mishra and Kunwar Rananjay Singh (MNNIT Allahabad, India), Rupam Bharati, Arun Saurabh and Manoj Kumar Meshram (IIT BHU, India)

Session Code: Tu-TO-S3.4

14:00-16:00

Hall: Atelier-1

Session Title:	Special Session-21: Innovative Hardware Pathways for IoT & RFID-Enabled Smart Systems (supported by IEEE CRFID)
Session Chair(s):	Kamlesh Patel (University of Delhi, India) & Lalit Kumar (NIT Calicut, India)

1571172520 14:00	Performance of Two Different Types of Antennas for Wireless Image Transfer Using Software-Defined Radio Rounak Deb, Shailesh, Pranjal Naugain and Kamlesh Patel (University of Delhi South Campus, India)
1571173120 14:15	SDR-Based ASK Modulation Classification Using Deep Learning for RFID Applications Mahender Singh Yadav, Amit Birwal and Ravi (University of Delhi, India), Ambresh P A (Gulbarga University, India)
1571173152 14:30	A High-Gain Slotted Copper Sheet Reader Antenna for 2.45 GHz RFID Systems Amit Birwal, Ravi and Shailesh (University of Delhi South Campus, India)
1571173369 14:45	Battery-Less Long-Range LTE-M Water Leak Detector Roshan Nepal, Brandon Brown, Shishangbo Yu, Roozbeh Abbasi, Norman Zhou and George Shaker (University of Waterloo, Canada)
1571179527 15:00	Design and Implementation of an Autonomous Wireless Charging System for Low-Power Drones Vivek Kumar Srivastava (IIT Ropar, India), Sancheti Ronak Jain (ACE Engineering College, India), Ashwani Sharma (IIT Ropar, India)
1571181558 15:15	Wireless Power Transfer for Polarization-Insensitive Battery-Less IoT Beacon Vikas Kumar Malav (IIT Ropar, India), Viren Sharma (LNMIIT, India), Ashwani Sharma (IIT Ropar, India)
1571183599 15:30	Human Posture Monitoring Through Low-Cost Non-Invasive RFID Techniques Debi Dutta, Simone Genovesi, Giuliano Manara and Filippo Costa (University of Pisa, Italy)
1571182013 15:45	Design of a Gain-Stabilized Ka-Band Low Noise Amplifier (LNA) Kirti, Somak Bhattacharyya and Shivam Verma (IIT BHU, India)

Session Title:	Special Session-20: EM-Fields meet Human Body enabling Internet of Bodies (IoB)
Session Chair(s):	Shreyas Sen (Purdue University, USA) & Cristiano Tomassini (University of Perugia, Italy)
Invited: 14:00	Interaction of MHz Quasistatic Fields with Human Body for Efficient Communication and Powering Shreyas Sen (Purdue University, USA)
1571183963 14:30	Is in-Body to Out-of-Body Communication Primarily Inter-Device Coupling? Ayan Biswas and Samyadip Sarkar (Purdue University, USA), Baibhab Chatterjee (University of Florida, USA), Shreyas Sen (Purdue University, USA)
1571184272 14:45	Wearable to Wearable Powering Through Series Resonant Capacitive Electro-Quasistatic Human Body Powering Lingke Ding, Samyadip Sarkar, Zhengbin Chen, Khanh Nam Nguyen and Shreyas Sen (Purdue University, USA)
1571184357 15:00	Can Magnetic Excitation in IBOB Body Resonance Be Picked Up by Distant Wearable Capacitive Rx? Samyadip Sarkar, Lingke Ding and Shreyas Sen (Purdue University, USA)
1571184937 15:15	From the Two-Capacitor Paradox to Electromagnetic Side-Channel Mitigation in Digital Circuits Raghvendra Pratap Singh (IISc, India), Baibhab Chatterjee (University of Florida, USA), Shreyas Sen (Purdue University, USA), Debayan Das (IISc, India)
1571185000 15:30	Channel Measurements for Ultra-Low-Power Tissue-Coupled Communication in Personalized Cardiac Pacing and Continuous Monitoring Anyu Jiang and Dianelys Suarez (University of Florida, USA), Ayan Biswas (Purdue University, USA), Baibhab Chatterjee (University of Florida, USA), Shreyas Sen (Purdue University, USA)
1571187802 15:45	High Gain Dual Band mm Wave MIMO Antenna Array for Wireless Body Area Networks Priyank Mishra, Tiwari Poonam, Akhila Gouda and Saptarshi Ghosh (IIT Indore, India)

Industry Exhibition & Poster Session for Best Papers

Session Title:	Industry Business Lounge for Diamond Sponsor
Session Moderator(s):	Ashutosh Kedar (DRDO, India)
Industry Session:1 14:00-14:45	
Industry Session:2 14:45-15:30	
Industry Session:3 15:30-16:00	

HIGH TEA BREAK (16:00-16:30)

Session Title:	Microwave Measurements and Testing-II
Session Chair(s):	Deepti Das Krishna (CUSAT, India)
1571184152 16:30	Non-Destructive Microwave Inspection of GFRP and CFRP Across X and K-Bands Agnesh M S, Neema K and Deepti Das Krishna (CUSAT, India)
1571184828 16:45	No-Screw Interface for Rapid Assembly and Testing of Sub-THz Waveguide Components Dhruba Das, Sibabrata Mondal and Patnam Hanumantha Rao (SAMEER, India)
1571184409 17:00	Advanced Architecture for Automated Payload Checkout Framework Hanuman Meena, Karan Sanjay Pal, Jatin Trivedi, Anik Saha and Rakesh Vyas (ISRO, India)
1571184698 17:15	Microwave Sensor for Real-Time Quality Assessment of Thermally Degraded Cooking Oils Umair Bin Farooq (IIT Jammu, India), Javaid Ahmad Rather (University of Jammu, India), Kushmanda Saurav (IIT Jammu, India)

Session Title:	Metamaterial-Inspired Reconfigurable Antennas
Session Chair(s):	Saptarshi Ghosh (IIT Indore, India)

1571184985 16:30	mm-Wave Gain Enhanced Antenna with Phase Gradient Metasurface for Beam Deflection Rohit Khandekar, Yashika Chauhan, and Deepika Sipal (Delhi Technological University, India)
1571188573 16:45	Multi-Wideband Angularly-Stable Vialless 3-Bit RIS Using Quad Metal Layer Suspended Multi-Resonators for Wi-Fi 6E Networks Arun Muthu Ram M and Sukomal Dey (IIT Palakkad, India)
1571173203 17:00	Electronically Tunable Ka-Band Metasurface with Integrated Varactors for Wide-Angle Beam Steering at 27 GHz Poojitha Maddineni (IIST, India), Julien Sarrazin (Sorbonne Université, France), Chinmoy Saha (IIST, India), Massimiliano Casaletti (Sorbonne Universités, France)
1571183679 17:15	Characterization of 4x4 Scalar Metasurface-Loaded Printed Dipole Antenna for Resonance Frequency Tuning and Cross-Pol Modulation Anusuya Nandi (IIT Kanpur, India), Swarnadipto Ghosh (University of Ghent, Belgium), Chinmoy Saha (IIST, India), Mohammad Jaleel Akhtar (IIT Kanpur, India)

Session Code: Tu-TO-S4.3

16:30-17:30

Hall: Vembanad-3

Session Title:	Metamaterial-Based Microwave Absorbers
Session Chair(s):	Elham Baladi (Polytechnique Montreal, Canada)

1571177446 16:30	Compact Ultrawideband Metamaterial Absorber for Triple-Band EMC and EMI Applications Ramesh Amugothu (Dayananda Sagar University, India), Nageswar Rao Thadikamalla (Anurag University, India), Sunkaraboina Sreenu (Vardhaman College, India)
1571180563 16:45	Axial Symmetric and Angle Independent Split-Ring Metamaterial Absorber as Counter HPM Blanket Nani Medicherla (DRDO, India), Abhishek Jha (IIT Tirupati, India), R Seshadri and Subrata Kumar Datta (DRDO, India), MV Kartikeyan (IIITDM Kancheepuram, India)
1571181167 17:00	A Dual-Layer Wideband Metasurface Absorber for 5 GHz Wi-Fi Applications Naveen Bhukya, Amartya Banerjee, Tapas Chakravarty and Hemant Kumar Rath (TCS, India)
1571184679 17:15	A Novel Textile Based Multi-Layer Absorber for Wearable EM Shielding Avinash C Suryawanshi, Anshumat Dinesh and Sujal Agarwal (IIIT Nagpur, India), Ankita Harkare (Shri Ramdeobaba College of Engineering and Management, India), Paritosh Peshwe (IIIT Nagpur, India)

Session Code: Tu-TO-S4.4

16:30-17:30

Hall: Grand Salon-1

Session Title:	Static and Reconfigurable, Multifunctional FSS-II
Session Chair(s):	Somak Bhattacharya (IIT BHU, India)

1571184232 16:30	Design and Fabrication of a Low-Profile Polarization Independent Broadband Microwave Absorber Using 3D-Printing Technology Sagnik Chakraborty (IEM Kolkata, India), Arjab Sengupta (UEM, India), Md Mustafa Abdulla (IEM Kolkata, India), Malay Gangopadhyaya (UEM, India), Gobinda Sen (IEM Kolkata, India)
1571184873 16:45	Broadband 3D-Printed Honeycomb Absorber Integrated on Wing Structure for RCS Reduction Sanjay Yadav, Munna Aziz, Akhila Gouda, Patinavalasa Megh Sainadh and Saptarshi Ghosh (IIT Indore, India)
1571184940 17:00	Double-Axial Strain Sensor Based on Cross and Dumbbell-Shaped Metasurface Alok Ranjan Kumar, Krishnendra Singh, Diptiranjana Samantaray (University of Delhi, India), Rajan Agrahari (NIT Patna, India)
1571188703 17:15	Second-Order Ultra-Thin Transparent FSS on ITO-Coated PET for Broadband X-Band Shielding Rakesh Roshan, Nitin and Mohammad Jaleel Akhtar (IIT Kanpur, India)

Session Code: Tu-TO-S4.5

16:30-17:30

Hall: Grand Salon-2

Session Title:	Metasurface and UWB Antennas
Session Chair(s):	Nrusingha Charan Pradhan, Central University of Karnataka, India

1571184187 16:30	Holographic Theory Inspired Metasurfaces for Dual Mode Reflective and Radiating Applications Deepshikha Mahapatra (IIST, India), Subhadrita Ghosh (Queen's University Belfast, UK), Chinmoy Saha (IIST, India)
1571172351 16:45	An Enhanced-Gain Wideband MS-Based CP Microstrip Patch Antenna Employing a Partial Ground Plane Deepak Ram, Amit Kumar Singh and Somak Bhattacharyya (IIT BHU, India)
1571188588 17:00	A Highly Selective High Gain Vivaldi Filtenna with Multiple Radiation Nulls for UWB, Satellite Communication and Short Range Radar Applications

	Abhishek Patel, Trivesh Kumar (IIITDM Jabalpur, India), Manoj Singh Parihar (ABV-IIITM, Gwalior, India)
1571173887 17:15	A Planar Quasi-Yagi Antenna with Enhanced Bandwidth for 5G NR FR2 mmWave Coverage Bikash Kumar Santi, Biku Raut, Dhruva Panda and Deepak Kumar Naik (Berhampur University, India)

Session Code: Tu-TO-S4.6

16:30-17:30

Hall: Atelier-1

Session Title:	Antennas for Space and Defense Applications
Session Chair(s):	Femina Beegam S (VSSC, ISRO, India)

1571172946 16:30	Techno-Economic Impact of Multi-Frequency Antennas in SATCOM Mayank Mayank (Aalto University, Finland), Bisma Manzoor (RMIT University, Australia), Tuukka Kuuramaa and Ville Lundén (Aalto University, Finland), Milind Thomas Themalil (IIIT Kottayam, India)
1571184858 16:45	Design of a Shared Aperture Patch Antenna Array (X and Ka Band) for CubeSat Applications Arunya Paul (KIIT DU, India), Chinmoy Saha and Priyadarshanam Hari (IIST, India), Sudhakar Sahu (KIIT University, India)
1571187599 17:00	Aperture Coupled Patch Antenna Array for Launch Vehicle Telemetry Reception Manoj Joseph, Femina Beegam S, Saji Joyas and MJ Lal (ISRO, India)
1571188535 17:15	A Compact Triple Band Antenna for L/s/C Bands for Sub-Surface Metallic Target Detection Athira Manoharan and Sukomal Dey (IIT Palakkad, India)

Session Code: Tu-TO-S4.7

16:30-17:30

Hall: Atelier-3

Session Title:	Planar Antenna Arrays
Session Chair(s):	Manas Sarkar (ISRO, India)

1571184963 16:30	Modelling and Practical Realization of Dual-Polarized Antenna Array Using Amplitude and Phase Coherent 1:64 Way Wideband Feed Network Surendra Bitra, Debaprasad Barad, and Balachary Molupoju (Astra Microwave Products Ltd, India)
1571184639 16:45	IDM Based Computation of Reactive Energy Density Around near-Field Focused Antenna Arrays Debdeep Sarkar (IISc, India), Yahia Antar (Royal Military College of Canada, Canada)
1571184902 17:00	Time Modulation-Based Enhanced Sum-Difference Monopulse Beamforming Pattern Generation Using SPDT Harmonic Switching Networks Avishek Chakraborty (GITAM Bangalore, India), Durbadal Mandal (NIT Durgapur, India), Ambar Bajpai (GITAM University, India)

Session Code: Tu-TO-S4.8

16:30-17:30

Hall: Natika

Session Title:	Dielectric Resonator Antennas-II
Session Chair(s):	Koushik Dutta, (NSEC Kolkata, India)

1571184771 16:30	New Design Guidelines to Realize Rectangular Shaped DRA with Optimum Characteristics Suryatapa Ray and Debatosh Guha (University of Calcutta, India), Satyajit Chakrabarti (SAMEER Kolkata, India)
1571187431 16:45	A Low-Profile Reconfigurable Dielectric Resonator Antenna for Microwave Application Abdul Azeez, Shameer Keelaillam and Lalit Kumar (NIT Calicut, Kerala, India)
1571188429 17:00	Wideband Concentric Cylindrical and Ring Dielectric Resonator Antenna Mohit Mishra, Rajbala Solanki, Peng-Khiang Tan, Cedric W. L. Lee and Theng Huat Gan (NUS, Singapore)
1571188656 17:15	A Wideband Hemispherical Cavity-Backed Cylindrical DRA-Based 4-Port MIMO Antenna for X-Band Applications Arunya Paul, Sasmita Pahadsingh, Sudhakar Sahu and Jyoti Ranjan Panda (KIIT University, India)

Session Code: Tu-Ind-S4

16:30-17:30

Hall: Liwa-F

Industry Exhibition

Session Code: Tu-DSP-S4

16:30-17:30

Hall: Liwa-IBL

Session Title:	Industry Business Lounge for Diamond Sponsor
Session Moderator(s):	Ashutosh Kedar (DRDO, India)

Industry Session:3 16:30-17:15	
Industry Session:4	

17:15-17:45		
Session Code: Tu-IBM-S4	16:30-17:30	Venue: Cruise
Session Title:	India Business Meeting	
Session Moderator(s):	Sandeep Chaturvedi (GAETEC, India) & Ramesh Gupta (Ligado Networks, USA)	
Session Code: Tu-FMB-S5	18:00-20:00	Hall: Board Room-1
<i>Future MAPCON Bidding</i>		
Session Code: Tu-IEEE-S5	18:00-20:00	Hall: Atelier-1
<i>IEEE DataPort Meeting</i>		
Session Code: Tu-IEEE-S6	19:00-20:00	Hall: Board Room-2
<i>IEEE T-MTT Editorial Meeting</i>		
Session Code: Tu-MMP-S3.2	18:00-20:00	Hall: Vembanad-2
<i>Mentor-Mentee Program</i>		
DINNER (20:00-21:00)		

DAY-4

DECEMBER 17, 2025

Highlights

- 26 Technical Sessions
- 2 Poster Sessions
- Defence Cluster Sessions
- 2 Industry Session
- Startup forum
- Student Design Contest
- Women in Antennas and Microwave Session
- Ask me Anything
- 3 Minutes Presentation
- Industry Exhibition

WEDNESDAY-Dec 17

Session Code: We-YOGA

06:00-07:00

Hall: Vembanad Lawn

Session Title: Mindful Morning Waves: Yoga Session at IEEE MAPCON

Registration Link: <https://forms.gle/Z7CdkoR9uABvyb1B8>

Session Code: We-ISTP-S1

08:30-10:30

Hall: Vembanad-1

Session Title: Inter-Society Technology Panel-2

Session Chair(s): Jawad Y. Siddiqui (RMC, Canada)

Panel Members: Changzhi Li (IEEE TMTT, EIC 2026), Almudena Suárez (IEEE TMTT, EIC), Francesco P. Andriulli, (IEEE AP Magazine, EIC), Debatosh Guha (IEEE AP-S MGA Chair), Yang Hao (IEEE AP-S Publication Committee Chair), & Zhizhang (David) Chen (IEEE MWTL, EIC)

Session Code: We-ISKN-S1

08:30-10:30

Hall: Vembanad-2

Session Title: Industry Keynote Session

Session Chair(s): Ashutosh Kedar (DRDO, India)

Industry Keynote-1
08:30 Low Cost, Electrically Small UHF/GPS Integrated Antenna for Tracking Module
Rod Waterhouse (Octane Wireless, USA)

Industry Keynote-2
09:00 PWG Testing: New Frontiers in Antenna Measurement
Lars Foged (MVG)

Industry Keynote-3
09:30 Electromagnetic Environmental Effects (E³) - Our Process and What We Do
John La Salle (Northrop Grumman Corporation, USA)

Industry Keynote-4
10:00 Bridging Theory and Reality: The Critical Role of RF Characterization
Sathya Padmanabhan (Maury Microwave, USA)

Session Code: We-TO-S1.1

08:30-10:30

Hall: Vembanad-3

Session Title: Signal Processing Approach for Antennas and Wireless Systems

Session Chair(s): Stefano Maci (University of Siena, Italy) & Shobha Sundar Ram (IIIT Delhi, India)

Keynote:
08:30 Degrees of Freedom of the Field and Maximum MIMO Channels as a new strategy for BTS Antenna Design
Stefano Maci (University of Siena, Italy)

1571169607
09:00 3D Geometric-Based Outdoor Stochastic Modeling Using Inverse Parabolic Scatterer Distribution with Transmitter in Motion
Akshay Kaushal and Jayanta Mukherjee (IIT Bombay, India)

1571184208
09:15 Constellation Prediction for Reconfigurable Metasurface-Inspired Media-Based Modulation Using Residual Neural Networks
Saurav Roy (IISc, India), Ziheng Fu (Pennsylvania State University, USA), K Vinoy (IISc, India), Ram M Narayanan (Pennsylvania State University, USA)

1571184358
09:30 Characterization of AWGN Channel and Phase Noise on Performance Evaluation of QPSK Modulation
Chittaranjan Swain, Deepthi VD, Nidhi Mittal, Jayaprakash K P and Santhya P (DRDO, India)

1571184369
09:45 Private 5G Lab as a Service (P5G-laaS): Next Generation Communication Platform for Simulation and Performance Evaluation
Goutam Kumar and C M Markan (Dayalbagh Educational Institute, India)

1571184978
10:00 Observation of Superluminal Effect in UWB Far-Field Communication
Ananya Mukherjee and Debdeep Sarkar (IISc, India)

1571173437
10:15 Antenna Design Strategies for Multipath Fading Mitigation in Wireless Systems
Abdul Lateef Haroon Phulara Shaik, K Achyuth, Anuja Shirahatti, Kavya V and A Ananda (BITM, India)

Session Code: We-TO-S1.2

08:30-10:30

Hall: Grand Salon-1

Session Title: Low Profile Microstrip Patch Antennas-I

Session Chair(s): Subhradeep Chakraborty (CSIR-CEERI, India) & Paramesha (Central University of Karnataka, India)

1571184256
08:30 Compact Multi-Wideband Wearable Patch Antenna for ISM Band, WLAN, WBAN, and 5G IoT Applications
Pooja Sharma (Motilal Nehru NIT Allahabad, India), Ajay K Poddar (Synergy Microwave Corporation, USA)

1571184613 08:45	High-Diversity 2.4/5 GHz 4-Port F-Shaped MIMO Antenna for Next-Generation Wireless Networks Jaiverdhan, Bhuvan Kumar and Rajat Khanduri (NIT Uttarakhand, India), Bhawna Kalra (MNIT Jaipur, India), Sanjeev Yadav (Central University of Jammu, India), Mahendra Mohan Sharma (Malaviya NIT, India)
1571184702 09:00	Design and Development of Microstrip Antenna for Telemetry in Hypersonic Airborne Systems V Srinivasa Rao and Chethanarama L (DRDO, India), Harsh Sanjay Kanoje (VIT Bhopal University, India)
1571184829 09:15	3.5 GHz Operated Fractal Based Linearly Polarized Antenna for Wireless Applications Subhasish Pandav, Praween Kumar Nishad and Ekant Sharma (IIT Roorkee, India)
1571184900 09:30	Design and Simulation of Compact CPW Fed Fractal Antenna for Advanced 5G for V2X Wireless Telemetry Satellite Applications Arun Raj and Durbadal Mandal (NIT, Durgapur, India)
1571184933 09:45	Compact Wideband Meta-Material Inspired E Shape Stub Resonator ZOR Antenna Amiruddin Shams and A. Bharathi (Osmania University, India), G. Ravi Shankar Reddy (CVR College of Engineering, India), Navneet Kumar (I.T.S Engineering College, India)
1571184945 10:00	Design of Stacked Patch Antenna Integrated with Schiffman Phase Shifter for Doherty Power Amplifier Dheeraj V, Amrit Raj, Madhusudhan TM, and A Mahesh (RV College of Engineering, India), Prasad Ramabadrnan (Sequans Communications Ltd, UK)
1571185018 10:15	A High Gain Wideband Dual Polarized Stacked Antenna in Sub-6GHz Band Savita Baraskar and Rinkee Chopra (IIT Indore, India)

Session Code: We-TO-S1.3

08:30-10:30

Hall: Grand Salon-2

Session Title:	RF Filters-I
Session Chair(s):	Roberto Gomez Garcia (University of Alcalá, Spain) & Jolly Dhar (ISRO, India)

Invited: 08:30	Enabling Advanced Digital Communications Systems With RF/Microwave Filters With Beyond-Transmission-Band Flat Group Delay Roberto Gómez-García (University of Alcalá, Spain)
1571184724 09:00	Reconfigurable Bandpass-to-Bandstop Filter Using a Half-Mode Corrugated Substrate Integrated Waveguide with Open-Ended Stubs Amit Kumar Patel, Aakash Bansal and William Whittow (Loughborough University, UK)
1571173243 09:15	A Compact S to C Band Lumped Element Based Switch Filter Bank Abhilash Thumiki, Lalitha Saripaka and Y. Hemalatha (DRDO, India)
1571168947 09:30	A Wideband Wide-Beam Filtering Antenna for High-Power Applications Vijoyatry Paul and Kirti Dhawaj (IIT Delhi, India)
1571183580 09:45	A Miniaturized Low-Pass Filter with Transmission Zeroes in SICL Technology Nicolò Delmonte and Lorenzo Silvestri (Università di Pavia, Italy), Cristiano Tomassoni (University of Perugia, Italy), Luca Perreggrini and Maurizio Bozzi (University of Pavia, Italy)
1571184594 10:00	Compact Dual-Band Half-Mode Substrate Integrated Plasmonic Waveguide Bandpass Filter with Wide Stopband Nagaraju Punnam and Pachiyannan Muthusamy (Vignan's Foundation for Science, Technology & Research, India), Sambaiah Pelluri (NIT Kurukshetra, India), Kartikeyan Machavaram Venkata (IIITDM, Kancheepuram, India)
1571184954 10:15	Design of an 8th Order Modified Chebyshev Differential Notch Filter for Radio Astronomical Observatory Application Chiranjit Majumder, Sainbor Mukhim and Subhadeep Basu (IIT Kanpur, India)

Session Code: We-TO-S1.4

08:30-10:30

Hall: Atelier -1

Session Title:	Microwave Systems for RADAR Applications
Session Chair(s):	S D Suresh (LRDE, DRDO, India) & Francesca Vipiana (Politecnico di Torino, Italy)

1571173263 08:30	Deep Learning Enhanced Multistatic Imaging Using Bistatic Born Approximation Data Harisha Shimoga Beerappa (J N N College of Engineering, India), Mallikarjun Erramshetty and Eshwar B (NIT Goa, India)
1571173826 08:45	Sub-Meter Resolution SAR Imaging Using Stepped LFM Peeyush Sahay (DRDO, India), Shivam Choudhary (Swami Keshvanand Institute of Technology (SKIT), India), Narasimhan Rs and Debasish Deb (DRDO, India)
1571173880 09:00	Time Space Management Module Design for Active Phased Array Radars with Assurance for Qualification Taniza Roy, Abhinandan Sarkar, Jayabrata C and Sheik Altaf M (DRDO, India)
1571184351 09:15	High-Contrast Subsurface Nearfield Microwave Imaging for Anomaly Detection Using Metasurface-Loaded Patch Antenna Soumya Chakravarty and Anwesha Khasnobish (TCS Research, India), Mohammad Jaleel Akhtar (IIT Kanpur, India)

1571184480 09:30	Pre-Launch Testing & Characterization of the NISAR s-SAR Digital Beamforming Anish Kumar Mishra, Suneela Mishra, Diksha Sharma, Rakesh Kumar, Chetan Kumar Babubhai Lad, Prantik Chakraborty, Pankaj K Nath, Ch.V.N. Rao and Nilesh M. Desai (ISRO, India)
1571184580 09:45	Terahertz Explorer for Atmosphere of Mars (TEAM) Payload for Martian Atmospheric Sounding Prantik Chakraborty, Mahendra Pratap Singh Bhadoria, Ch.V.N. Rao and Nilesh M. Desai (ISRO, India)
1571173681 10:00	Lab Demonstration of Phase Synchronization for Tandem SAR Akshay Pandit Vetal, Ashok Rohada, Prantik Chakraborty, Pankaj K Nath, Ch.V.N. Rao (ISRO, India)
1571173821 10:15	A Microwave Imaging System for Inline Food Inspection Calin I Maraloiu and Juan Felipe Gonzalez-Pardo (Politecnico di Torino, Italy), Jorge Alberto Tobon Vasquez and Marco Ricci (Wavision srl, Italy), Francesca Vipiana (Politecnico di Torino, Italy)

Session Code: We-TO-S1.5

08:30-10:30

Hall: Atelier -2

Session Title:	Reconfigurable Smart Antennas for 5G/6G Applications
Session Chair(s):	Eva Rajo-Iglesias (University Carlos III of Madrid, Spain) and Latheef A Shaikh (DRDO, India)

1571184955 08:30	3D-Printed Single-Feed Dielectric Reflectarray for High-Gain Dual-Beam Radiation in Ka Band Jimil Bhatt and Basudev Majumder (IIST, India)
1571185001 08:45	Origami-Inspired Reconfigurable Pyramidal Horn Antenna for Dynamic Beam Shaping in Radar Applications Nallamothu Sree Manasa (IIST, India), Shubhanshi Jain (IISc, India), Prithvisha Gupta (Heritage Institute of Technology, India), Manas Sarkar (ISRO, India), Chinmoy Saha (IIST, India)
1571173160 09:00	A Wideband Patch Antenna with Radiation Pattern Reconfigurability Nandana Viswanathan and K Vinoy (IISc, India)
1571173889 09:15	On the Integration of Sub-6 Patch Antennas with Mm-Wave Reflectors Martin Petek and Francesca Vipiana (Politecnico di Torino, Italy), Eva Rajo-Iglesias (University Carlos III of Madrid, Spain)
1571179481 09:30	Design of Multi-Tone Timed Array with Directed and Omni-Directed Beams Employing Evolutionary Algorithms Suneel Varma (Astra Microwave Products Ltd, India), Gopi Ram (NIT Warangal, India), Guy Vandenbosch (Katholieke Universiteit Leuven, Belgium), Arun Kumar Gande (NIT Warangal, India)
1571183521 09:45	Compact Single Band Active Antenna for Navigation Applications Kashish Grover, Gaurav Kumar, Devendra Kumar Sharma, Ramesh Chandra Gupta, Vijay Kumar Singh, Sanjeev Kulshrestha, Milind B Mahajan (ISRO, India)
1571184697 10:00	CPW Fed Frequency Reconfigurable Antenna with Dual Band to Wideband Capabilities for Millimeter Wave Applications Tiwari Poonam, Priyank Mishra, Akhila Gouda and Saptarshi Ghosh (IIT Indore, India)
1571173919 10:15	Recovery of OAM Beam of a Fractal Antenna Utilizing an Elliptical Fresnel Reflector Tales Augusto Carvalho Barros and Glauco Fontgalland (UFCG, Brazil), Fernando Teixeira (Ohio State University, USA), Rodrigo Cesar da Fonseca Silva (State University of Paraíba, Brazil), Paulo Silva (Federal Institute of Paraíba, Brazil), Hugerles S. Silva (University of Brasília, Brazil)

Session Code: We-TO-S1.6

08:30-10:30

Hall: Atelier -31

Session Title:	THz Components and Radiating Structures
Session Chair(s):	Utpal Dey (IIT Roorkee, India) & K Sreenivasulu (DRDO, India)

1571171937 08:30	CP-PIFA Antenna with Inline Microstrip-to-Waveguide Transition for Sub-THz Applications Anees Fathima, Subhanya C. P., Vineetha Joy and Hema Singh (CSIR-NAL, India)
1571172898 08:45	Experimental Characterization of Micro-Milled Sub-THz Folded Waveguide Structure for TWT Anurag Srivastava (DRDO, India), MS Karthik (CMTI, India), V Bhanu Naidu and Santanu Karmakar (DRDO, India), K Niranjan Reddy (CMTI, India), Subrata Kumar Datta (DRDO, India)
1571173903 09:00	RFSoc Based Beam Squint Mitigation Technique for Photonic Wideband Receivers in Radar Applications Meena Dasan and Vidyamol S (DRDO, India), Ankita Sunder and Smrutimaye M (Manipal Institute of Technology, India), Preenu Acha Prasad (DRDO, India)
1571177360 09:15	Quasi Optical Millimeter Wave Filters Fabricated Using Copper Coated Perforated Brass Sheet Sambit Kumar Ghosh, Ethan Kepros and Premjeet Chahal (Michigan State University, USA)
1571183435 09:30	CNC Machining and Characterization of W-Band Folded Waveguide Structures Santosh Kumar, Anurag Srivastava, Sreekuttan R (DRDO, India), Venkaiah N (IIT Tirupati, India), S K Datta (DRDO, India), MV Kartikeyan (IIITDM-Kancheepuram, India)
1571163542 09:45	Measurements and Modeling of Rectangular Metal Waveguides from 110 GHz to 1100 GHz Nikhil Kumar and Utpal Dey (IIT Roorkee, India)
1571184950	CMOS on-Chip Antenna with Integrated Power Amplifier for Sub-THz Frequencies

10:00	Abirami M and Immanuel Raja (IIST, India)
1571188484	Compact Half-Mode Substrate Integrated Plasmonic Waveguide Bandpass Filter with Wide Stopband
10:15	Nagaraju Punnam and Pachiyannan Muthusamy (Vignan's Foundation for Science, Technology & Research, India), Sambaiah Pelluri (NIT Kurukshetra, India), Kartikeyan Machavaram Venkata (IIITDM, Kancheepuram, India)

Session Code: We-TO-S1.7

08:30-10:30

Hall: Natika

Session Title:	Impedance or Phase Modulated Metasurfaces and Lens Antennas
Session Chair(s):	Kumar Vaibhav Srivastava (IIT Kanpur, India) & Mahesh P Abegaonkar (IIT Delhi, India)

1571184562	Metasurface Lens for Beam Stabilization of AESA Antenna in RADAR Systems
08:30	Ajith Balakrishnan Nair (CSIR-NAL, India), Arthi R, Masoom Verma and Christopher S (IIT Madras, India), Shiv Narayan and Raveendranath Nair (CSIR-NAL, India)
1571188038	A Dual Frequency Sub-6 GHz Leaky Dynamic Metasurface Antenna
08:45	Praneet Jain (Queen's University Belfast, UK), Saptarshi Ghosh (IIT Indore, India), Simon Cotton and Okan Yurduseven (Queen's University Belfast, UK)
1571188040	Reconfigurable Leaky-Wave Metasurface Antenna for FR1 Frequencies
09:00	Praneet Jain (Queen's University Belfast, UK), Saptarshi Ghosh (IIT Indore, India), Simon Cotton and Okan Yurduseven (Queen's University Belfast, UK)
1571188641	Circularly Polarized Digitally Coded Holographic Metasurface Antenna for Ku-Band Applications
09:15	Raju Malleboina (IISc, India), Shanthi Ashokan and Shashank D (Vishvesvaraya Technological University, India), Debdeep Sarkar (IISc, India)
1571188170	Compact Metasurface-Based Folded Array Antenna for Higher Order OAM Mode
09:30	Sougata Chatterjee, Pradip Kumar Roy and Somak Bhattacharyya (IIT BHU, India)
1571184904	Dual-Beam LHCP/RHCP Beamforming Using a Holographic Metasurface Antenna
09:45	Deepak Solanki and Akhila Gouda (IIT Indore, India), Okan Yurduseven (Queen's University Belfast, UK), Saptarshi Ghosh (IIT Indore, India)
1571184414	A Passive Polarization Sensitive Metasurface for Folded Reflectarray Antennas
10:00	Aadil Ahmad Khan and Kushmanda Saurav (IIT Jammu, India)

Session Code: We-Ind-S1

08:30-10:30

Hall: Liwa-F

Industry Exhibition

Session Code: We-TP-S1

08:30-10:30

Hall: Liwa Floor

Session Title:	Technical Poster Session-3
Session Chair(s):	Debi Dutta (University of Pisa, Italy)

1571184497	We-TP-S1.1	Serial Interface for High Speed Data Convertors (AFE7950) with Logic Devices (Polarfire FPGA) Yamuna Shanker Kumawat, Dhruva Anantha Datta and Rajat Arora (ISRO, India)
1571184820	We-TP-S1.2	Dual Circularly Polarized High Gain Impedance Modulated Metasurface Based Leaky-Wave Antenna for Dual Azimuthal Plane Radiation Ashwani Kumar and Anjana Krishna (IIT Jodhpur, India), Swarnadipto Ghosh (University of Ghent, Belgium), Soumava Mukherjee (IIT Jodhpur, India), Chinmoy Saha (IIST, India)
1571178908	We-TP-S1.3	Interdigitated Capacitors on Quartz Glass Substrates for Millimeter-Wave Applications Vinitha Johny and Niels Neumann (Clausthal University of Technology, Germany)
1571182529	We-TP-S1.4	Early Breast Cancer Detection Using Ultra-Wideband Textile Antenna Pawan Kumar Jaiswal and Rajarshi Bhattacharya (NIT Patna, India)
1571182727	We-TP-S1.5	Digitally Programmable FinFET/MTJ Voltage Controlled Oscillator for UWB Receiver Sandhya Kannaujiya, Priyanka Tiwar, Kavindra Kandpal, Prasanna Kumar Misra (IIIT Allahabad, India)
1571183467	We-TP-S1.6	2D Patch Antenna Fabrication Using Low-Cost Vinyl-Mask by UV Lithography Praveen Kittu B, Sravani Nagireddy, Sai Lakshmi Janga, Shaik Mohammad Abzal, Chatla Monica and Rupesh Kumar (SRM University AP, India)
1571183936	We-TP-S1.7	W-Band Transition Design Integrating Microstrip, Groove Gap Waveguide and Rectangular Waveguide for Compact MMIC Interfaces Prithvisha Gupta (Heritage Institute of Technology, India), Shubhanshi Jain (IISc, India), Manas Sarkar (ISRO, India), Chinmoy Saha (IIST, India)

1571184098	We-TP-S1.8	Design and Emission Studies of Magnetron Injection Gun for a 60 GHz, 100 kW CW Gyrotron Ravinder Beemagani (IIT Tirupati, India), Kavitha Panjagari (CVR College of Engineering, India), Abhishek Jha (IIT Tirupati, India), S Yuvaraj and Kartikeyan Machavaram Venkata (IIITDM Kancheepuram, India)
1571184353	We-TP-S1.9	Monolithic Microwave Integrated Circuit Packaging for Next Generation Communication Paulami Sarkar and Arun Kumar (SAMEER, India)
1571184428	We-TP-S1.10	A Simple and Optimization-Less Technique for Multi-Harmonic Suppression in Hairpin-Line Bandpass Filter Arjun Sadasivan, Shruti Sinha, Mukesh Patel and Ch.V.N. Rao (ISRO, India)
1571184498	We-TP-S1.11	Development of High Voltage Test Bench for High Power mm Wave Gyrotron Testing Awadhesh Kumar Baranwal, Naveen Kumar Sharma, Tapas Ranjan Swain, Nani Medicherla, Ranjan Kumar Parida, Ramray Hansdah, P Sidharthan, Santanu Karmakar and S K Datta (DRDO, India)
1571184242	We-TP-S1.12	Design and Analysis of a Single-Fed TM-Mode Annular Ring Antenna with Circular Polarization for 2.4 GHz Wireless Applications Raj Aryan, Deepankar Shri Gyan, Ajay Prudhvi Raj Pasupula, Kamla Prasan Ray (DIAT, India)
1571184514	We-TP-S1.13	Z-Slotted Circular Patch Antenna with DGS for Mid-5G Band Communication and Polyflon Cuflon Layer for Gain and Efficiency Improvement Atanu Chowdhury (Calcutta Institute of Technology, India), Prashant Ranjan (University of Engineering & Management, India), Dinesh Yadav (Manipal University Jaipur, India)
1571184563	We-TP-S1.14	Analysis of an Inhomogeneous Cylindrical Circular Microstrip Antenna Mirza Wazed Ahmed Begg and Sudipta Maity (NIT Rourkela, India)
1571184625	We-TP-S1.15	High-Gain Compact CPW-Fed Antenna for UHF FOPEN Radar Systems Ashwitha K. Shetty, Madhusudhan Goud Rangula, Princy Paul, Krishnamoorthy Kandasamy and Pathipati Srihari (NIT Karnataka, India), Choon Sik Cho (Korea Aerospace University, South Korea)
1571184631	We-TP-S1.16	Effect of Substrate Materials on an H-Shaped Wearable Textile Antenna with a Flexible EBG Prabhat Kumar Patnaik, Ribhu Abhusan Panda and Dr. Ribhu (Centurion University of Technology and Management, India), Dhruva Panda (Berhampur University, India)
1571184649	We-TP-S1.17	Demonstration of CVX Based Sparse Array Optimization Algorithm with FEM Simulation K C Chandini Devi, Shahla K P, Shahul Hameed V and Pradeep Kumar C (ISRO, India)
1571184651	We-TP-S1.18	Dielectric Superstrate Loaded Dual-Port Stacked Dielectric Resonator Antenna with Improved Gain and Circular Polarization Characteristics Ashish Yadav, Harshit Verma, Anand Sharma, Vijay Shanker Tripathi, Pawan Kumar Shukla (Motilal Nehru NIT, India), Shivesh Tripathi (KIET, India)
1571184652	We-TP-S1.19	Design and Performance Analysis of a C-Band Linear Array with Optimized Dielectric Domes Mahima Gowda RG, Ravi Kumar, J K and A Mahesh (RV College of Engineering, India), Ashutosh Kedar (DRDO, India)
1571184673	We-TP-S1.20	Polarization-Dependent RCS Analysis of Canonical Geometric Objects Under Linear Polarization Shaima Ahammed Vembala (IIIT Kottayam, India), Shubhanshi Jain (IISc, India), Prithvisha Gupta (Heritage Institute of Technology, India), Manas Sarkar (ISRO, India), Debarati Ganguly (IIIT Kottayam, India)
1571184685	We-TP-S1.21	On the Limitations of the Log-Distance/One-Slope Path Loss Model in LoRaWAN Muppala Ruthwik, Naveen Kumar Gajingam and Aftab Hussain (IIIT Hyderabad, India)
1571184717	We-TP-S1.22	Design and Optimization of Series-Fed and Center-Fed Shared Aperture Antenna for C/X Band Applications Harshith B, Vipul S Joshi and A Mahesh (RV College of Engineering, India), Ashutosh Kedar (DRDO, India)
1571184727	We-TP-S1.23	AI-Driven Optimization of Microstrip Patch Antenna Arrays Shreyas Aradhya, K. Samarth Babu Gotrale and A Mahesh (RV College of Engineering, India), Ashutosh Kedar (DRDO, India)
1571184806	We-TP-S1.24	Gain-Enhanced Wideband Vivaldi Antenna with Circular Flare Transitions for Radar and Wireless Applications Soham Banerjee, Swarnadeep Koley, Subhradip Bal (IEM, India), Malay Gangopadhyaya (UEM, India), Gobinda Sen (IEM, India)
1571184854	We-TP-S1.25	Gain-Filtering Reflectarray Antenna Based on 1-Bit Anisotropic Polarization Converting Unit Cell Vimal Kumar and Akhilesh Mohan (IIT Roorkee, India)
1571184043	We-TP-S1.26	Non-Invasive Blood Glucose Detection Using Highly Sensitive Metamaterial Sensor Subha Mandal (IEM Kolkata, India), Amit Kumar Singh, Rahul Mondal and Akhilesh Kumar (IIT Patna, India), Gobinda Sen (IEM, India)

1571184161	We-TP-S1.27	A Reconfigurable Metasurface for Wideband Absorption with a Notchband Neema K (CUSAT, India), Krushna Kanth Varikuntla (Queen's University Belfast, UK), Deepti Das Krishna (CUSAT, India)
1571184207	We-TP-S1.28	Design of Hippopotamus Optimization Algorithm Derived Microwave Absorber for Wideband Applications Ranjeet Pratap Singh Bhadoriya (Mohan Babu University, India), Ravi Panwar (IIT BHU, India), Garima Tiwari (Jabalpur Engineering College, India), Ankit Chandachoriya (IIITDM Jabalpur, India)
1571184520	We-TP-S1.29	Koch-Curve FSS Based Polarization Insensitive, Undeca-Band Microwave Absorber Covering s to K Bands Chandravijay Bharati, Ashwin Kothari and Abhay Gandhi (Viswesarayya NIT, India)
1571184753	We-TP-S1.30	A Wearable Textile Electromagnetic Absorber for 5G Applications Pranali Ramchandra Hatwar (IIIT Nagpur, India), Anveshkumar Nella (VIT Bhopal University, India), Rashmi A. Pandhare, Paritosh Peshwe and Harsh Goud (IIIT Nagpur, India)
1571184788	We-TP-S1.31	Cross-Shaped Dual-Band Polarization-Insensitive Metamaterial Absorber for 5G mm-Wave Applications Jaiverdhan Jaiverdhan and Sumit Rautela (NIT Uttarakhand, India), Ashish Kumar (NIT RAIPUR, India), MM Sharma (MNIT Jaipur, India)
1571184845	We-TP-S1.32	Dual Planar Dual Beam Anisotropic Holographic Metasurface Antenna Gautham Purohit, Thota Balaji, Chinmoy Saha (IIST, India)
1571184897	We-TP-S1.33	Polarization-Independent Gain Enhancing Metalens for GNSS L5 Band Nazima Shabir and Gazali Bashir (IIT Jammu, India), James Arokiasamy Baskaradas (SASTRA University, India)
1571184867	We-TP-S1.34	Fano-Assisted Nested Ring Resonator Based Compact Device for High-Sensitivity and High Quality Factor Multi-Analyte Photonic Sensing Pragya Mishra (IISc, India), Tushar Gaur (Synopsis, India), Srinivas Talabattula (IISc, India)
1571184927	We-TP-S1.35	Design of a Terahertz Metamaterial Absorber (TMA)-Based Bio-Sensor Using GaAs Towards Cancer Detection with Improved Sensitivity and FoM Arjab Sengupta (UEM, India), Sagnik Chakraborty (IEM Kolkata, India), Sayak Nandi and Malay Gangopadhyaya (UEM, India), Gobinda Sen (IEM Kolkata, India)
1571184965	We-TP-S1.36	Design and Simulation of a Pulsar Circuit for Short Duration High Current Applications Gokulnath K and Jose Joseph (Digital University Kerala, India)
1571185104	We-TP-S1.37	Silicon Wave Guide Analysis with Different Materials for Terahertz Applications Kirtana Narayanan (SRMIST, India), Shrinjoy Chatterjee (IEM Kolkata, India), Chinmoy Saha (IIST, India)
1571173891	We-TP-S1.38	Design and Analysis of Platinum Diselenide (PtSe₂) Integrated Slotted Bowtie Antenna for 6G Communication (W-Band) Shakthi priya M, Prince Gupta, Nalini Pareek and Dhairya S Arya (CSIR-CSIO, India)
1571182980	We-TP-S1.39	Stub-Augmented Low-Profile Magneto-Electric Dipole Antenna for Unified 2G to 4G and Sub-6 GHz n78 Band Coverage Balakrishna Islavath (MeitY, India), Vadlamudi Roja (NIT Andhra Pradesh, India), Balakrishna Islavath (MeitY, India), Indhumathi Kulandhaisamy (KIM Patents, India), T. Shanmuganantham (Pondicherry University, India), Sindhanaiselvi D (Pondicherry Technical University, India), T. Shanmuganantham (Pondicherry University, India)
1571184125	We-TP-S1.40	A Novel Stub-Loaded Spurline Structure for Miniaturized UWB Microstrip Filters with Harmonic Suppression Rupayan Halder and Arghyadeep Das and Md Abuzar (IIEST Shibpur, India), Dhruva Das (SAMEER, India), Susanta Kumar Parui (IIEST Shibpur, India)
1571184153	We-TP-S1.41	Delay-Optimized Communication Strategies for Safe Braking in Vehicle Platoons Sree Nithi K, Sopika R, Janani R, Bhuvana K and Govindasamy Ananthi (Thiagarajar College of Engineering, India)
1571184390	We-TP-S1.42	Differently Shaped Beams Analysis of Reconfigurable Intelligent Surface for 6G FR1 Band Signal Coverage Extension in Indoor Environment Sunanda Mukhopadhyay, Abhishek Sarkhel and Satyendra Singh Yadav (NIT Meghalaya, India)
1571173295	We-TP-S1.43	A Cost Effective, Open-Air Compact Antenna Test Range (CATR) to Reach 330 GHz Alexander Chen and Yonghui Shu (Eravant, USA), Neda Khiabani (Nokia Bell Labs, USA)
1571185036	We-TP-S1.44	Design and Simulation of an Electromechanical MEMS Sensor for Detection of Malaria, HIV, and Cancer Biomarkers Akhil Reddy, Sanjana Dasari, Geethanjali Kamoji, Jhansi Nomula and Naresh Muddamalla (Osmania University, India)
1571188384	We-TP-S1.45	Impact of 3G, 4G and 5G Mobile Phone Radiation on Brain and Reproductive System of Wistar Rat Paulraj Rajamani (JNU, India), Kumari Vandana Singh (AIIMS, India), Rohit Gautam (ICMR, India), Neha Jha and Jay Prakash Nirala (JNU, India)
1571184123	We-TP-S1.46	An Oval Shaped Receiver Coil Array Harvester for Efficient Wireless Charging of Drone Sagar Jain and Ashwani Sharma (IIT Ropar, India)

1571184349	We-TP-S1.47	Angle Insensitive Metamaterial Reflector for Enhancing Far-Field Wireless Power Transmission in UAVs Charging Amarnath Kumar and Chayanika Baishya (IIT Guwahati, India), Srijit Chakrabarti (IIT Bombay, India), Sisir Kumar Nayak (IIT Guwahati, India)
1571184260	We-TP-S1.48	Loss Function Sensitivity in Deep Learning Models for Investigation of Microwave-Plasma Interaction Shivam Gandha, Kalp Pandya, Ajeya Mandikal and Bhaskar Chaudhury (Dhirubhai Ambani University, India)
1571184671	We-TP-S1.49	Performance Enhancement of Terahertz Graphene Patch Antenna Sensor Through Vacancy Defect Engineering: A Multiscale Simulation Approach Vivek Kumar, Madhav Goswami, Jaiverdhan Jaiverdhan (NIT Uttarakhand, India)
1571184880	We-TP-S1.50	Optimal Design of Clocking Scheme for Integrated Avionics Systems for LEO Satellites Harshit Kumar, Ananth Shayanam G R, Bindu R, Senthil Kumar and Neelavathy M (ISRO, India)

Session Code: We-PSP-S1

08:30-10:30

Hall: Liwa-IBL

Session Title:	Industry Business Lounge for Platinum Sponsor
Session Moderator(s):	Sandeep Chaturvedi (GAETEC, India)

Industry Session:1 08:30-09:00	 
Industry Session:2 09:00-09:30	
09:30-10:30	DRDO Startup Challenge

TEA BREAK (10:30-11:00)

Session Code: We-TO-S2.1

11:00-13:00

Hall: Vembanad-1

Session Title:	Advanced RF Frontends Design
Session Chair(s):	Ke Wu (Polytechnique Montréal, Canada) & Mrinal Kanti Mondal (IIT Kharagpur, India)

Keynote: 11:00	Emerging Transceiver Architectures and Technologies for Future Wireless Systems Ke Wu (Polytechnique Montréal, Canada)
1571184364 11:30	C Band 400W Continuous Wave Solid State Linear Power Amplifier for Troposcatter Communication Anirudh Kumar, Priyanka Pai, Yachamaneni Sandeep, Kavitha V and Yogesh T K (BEL, India)
1571184533 11:45	Dual-Band GaN Power Amplifier Covering Wide Frequency Ratio for Sub-6 GHz 5G Application Siddharth Thakur, Harshvardhan Singh, Samyuktha Gundla, Nagaditya Poluri, Avinash Lahgere and Yogesh Chauhan (IIT, Kanpur, India), Sandip Kumar (Cadence Design Systems, India)
1571188671 12:00	Design of a Compact Sub-6 GHz Power Amplifier with Radial Stub-Based Bias Network for Harmonic Control Mahima Patel, Shrawan Kumar Patel, Debarati Sen, Mrinal Kanti Mandal (IIT, Kharagpur, India)
1571175276 12:15	A Hodgkin-Huxley Interpretation of Power Amplifiers Memory Effects in Stochastic Computing Siqu Wang (Sorbonne University, France), Yueyuan Gao (Shimane University, Japan), Shipra Shipra (Chalmers University of Technology, Sweden), Aziz Benlarbi-Delaï (Sorbonne University, France)
1571173064 12:30	Design of Compact Wideband Power Amplifier Using Stepped Impedance Matching Network Saurabh Shukla, Soumava Mukherjee and Arani Ali Khan (IIT Jodhpur, India)
1571162932 12:45	Design and Validation of 2-6 GHz RF Frontend Components and T/R Module Aji G Mattamana (Air Force Research Laboratory, USA), Marian K. Kazimierzczuk (Wright University, USA)

Session Code: We-DC.1-S2.2

11:00-13:00

Hall: Vembanad-2

Session	Defence Cluster-1: Advance Airborne Maritime Surveillance Technology
Session Chair(s):	Rajalaskshmi Menon (DS-DG(Aero), DRDO, India) & Santhya P (CABS, DRDO, India)
Panel Speaker 1: 11:00	Advancing India's Defence R&D for self-reliance in Airborne Maritime Surveillance Santhya P, OS & Director, CABS, DRDO, India
Panel Speaker 2: 11:30	Guardian of the deep seas: "India's 1st Indigenous Maritime Surveillance Aircraft R Rajesh, Sc-G, CABS, DRDO, India
Panel Speaker 3: 12:00	Advanced software-defined radar for maritime patrol Ramkumar R, Sc-E, CABS, DRDO, India
Panel Speaker 4:	Advances in MSDF&AI for Maritime ISR

12:30	Dhipu T M, Sc-F, CABS, DRDO, India
--------------	------------------------------------

Session Code: We-TO-S2.3

11:00-13:00

Hall: Vembanad-3

Session Title:	WPT & Energy Harvesting
Session Chair(s):	Manos M Tentzeris (Georgia Institute of Technology, USA) & Jasmin Grosinger (Universität Siegen, Germany)
Keynote: 11:00	Zero-Power Additively Manufactured FHE-Enabled Wireless/5G+ Ultrabroadband Modules for IoT, SmartAg, Industry 4.0 and Smart Cities Applications: from dream to reality Manos M. Tentzeris (Georgia Institute of Technology, USA)
1571163027 11:30	Design and Analysis of High Efficiency Ultra-WideBand Rectenna for RF Energy Harvesting Asmita Rajawat (Acropolis Institute of Engineering and Technology, India), Mahesh P Abegaonkar (IIT Delhi, India), Prerna Sharma (Amity University Uttar Pradesh, India)
1571170122 11:45	Coupled 2D Array of Dielectric Resonators for near-Field Focusing Amrutha Subrahmannian, Amalendu Patnaik and Utpal Dey (IIT Roorkee, India)
1571173868 12:00	Smart Wearable Lenses on Kevlar Vests Vitor Freitas, Amit Kumar Baghel and Pedro Pinho (Instituto de Telecomunicações, Portugal)
1571173944 12:15	A Novel ADC-Based Backscatterer Receiver Prabhav Manchanda, Cristina Andrei, Frank Tost, Ulrich L. Rohde and Matthias Rudolph (Brandenburg University of Technology, Germany)
1571184544 12:30	A Comparative Analysis of near-Field Wireless Power Transfer Planar Coil Geometries and Optimization for Drone Charging Systems Sahal Ahmed (IIT Ropar, India), Abhijeet Kumar (S.L.I.E.T, India), Sagar Jain and Ashwani Sharma (IIT Ropar, India)
1571185004 12:45	An ISM Band Flexible Printed Rectenna for Wearable Applications Shanmugarajan Balasubramanian (IIST, India), Apala Banerjee (IIT Kanpur, India), Mohammad Vaseem and Atif Shamim (KAUST, Saudi Arabia)

Session Code: We-TO-S2.4

11:00-13:00

Hall: Grand Salon-1

Session Title:	RF Sensors for Multifunctional Applications
Session Chair(s):	Jaleel Akhtar (IIT Kanpur, India) & P. Mohanan (CUSAT, India)
Keynote: 11:00	RF Technology for Sustainability: RF Harvesting, Microwave Imaging, RF Sensors and Nanomaterials M. Jaleel Akhtar (IIT Kanpur, India)
1571181150 11:30	A Novel Modified Hryvnian Shaped Resonator Loaded Microwave Rotation Sensor for Bio-Medical Motion Tracking and Monitoring Rachna Prabha, Gujalwar Harsh Vinod, Shivangi Gupta and Prashant Kumar Varshney (IIT ISM DHANBAD, India)
1571184784 11:45	Multi Mode Contactless Air Filled SIW Cavity Sensor for Material Characterization Sai Haranadh Akkapanthula and Abhishek Jha (IIT Tirupati, India)
1571188605 12:00	Investigation of Transmission Line Alignment in SLCDR-Based Angular Displacement Sensors Regalla Premsai (IIT Tirupati, India), Praveen Kumar AV (BITS Pilani, India), Amir Ebrahimi and Kamran Ghorbani (RMIT University, Australia)
1571184620 12:15	Compact Microwave Antenna-Based Sensor for Efficient Dielectric Characterisation Sachin Kumar, Aditya Kumar, Bhanu Pratap Singh and Ashwani Kumar (University of Delhi, India), Maifuz Ali (DSPM IIT Naya Raipur, India), Ravi Kumar Arya (Zhongshan Institute of Changchun University of Sci and Tech Zhongshan, China)
1571184758 12:30	Reconfigurable Dual-Notch Filter and Displacement Sensor Using Graphene Based Flexible Superstrates Puppala Purna Phani Chaitanya and Srujana Kagita (IIT Tirupati, India)
1571184777 12:45	A Triple Ring Resonator Sensor for Dielectric Characterisation in X-Band Sakshi Sharma and Srujana Kagita (IIT Tirupati, India)

Session Code: We-TO-S2.5

11:00-13:00

Hall: Grand Salon-2

Session Title:	Special Session-2: Adaptive and Resilient Antenna and Circuit Systems for Security, Defense, and Disaster Response (Part-2)
Session Chair(s):	Surendra pal (ISRO, India) & Shweta Srivastava (Jaypee Institute of Information and Technology, India)
Invited: 11:00	Electromagnetic-Matter Interactions as an Exploratory Tool for Atomic-Scale Sensing and Communication

	Mohammad Hossein Zarifi (University of British Columbia's School of Engineering, Canada)
1571169437 11:30	Tri-Band Electrically Small/Compact Planar Antenna for IoT and Sub-6 GHz Applications Kumud Ranjan Jha and Arnav Sharma (Shri Mata Vaishno Devi University, India), Satish K. Sharma (San Diego State University, USA)
1571173180 11:45	A Wideband Singly Balanced Gilbert Cell Active Mixer in Microstrip for Drone Carried Surveillance Systems Shubham Kumar and Ananjan Basu (IIT Delhi, India)
1571173407 12:00	Design of a Compact High Gain Fully Metallic Elliptical Lens Conical Horn Antenna R Venkateswaran, P Srikrishna (DRDO, India), Kannadassan Dhanaraj (Vellore Institute of Technology, India), Subrata Kumar Datta (DRDO, India)
1571173674 12:15	Low Mutual Coupling SIW Cavity-Backed MIMO Antenna for Ka-Band 5G Applications Nidhi Misra and Abhay Kumar (Jaypee Institute of Information Technology, India)
1571173823 12:30	Reconfigurable Wideband Liquid Coupled Microstrip Antenna in Ku-Band for Defense Application Yuvraj Singh Sarao, Amrandra Hari, Nidhi Tewari, Abhay Kumar and Nitin Muchhal (Jaypee Institute of Information Technology, India)
1571188585 12:45	Design of Dual-Mode X-Band Reflectarray for Defense Communication Anjana Krishna (IIT Jodhpur, India), Swarnadip Ghosh (University of Ghent, Belgium), Ashwani Kumar and Soumava Mukherjee (IIT Jodhpur, India), Chinmoy Saha (IIST, India)

Session Code: We-TO-S2.6

11:00-13:00

Hall: Atelier -1

Session Title:	Special Session-5: Advances in Antennas and Sensors for Health and Medical Applications
Session Chair(s):	Dhiman Mallick (IIT Delhi, India) & Sanghomitra Das (Jones Microwave Inc., Canada)

1571173323 11:00	An Ultraminiaturized Ultrawideband Low Profile Antenna for Skin, Muscle, and Heart Implantable Medical Devices Amarveer Singh Dhillon (University of Waterloo, Canada)
1571173876 11:15	Design of a Compact Flexible Wearable Antenna for Wideband Operation Noolu Srinivas Vatsav and Shashank Kasamshetty, Gopinath Samanta, Girish Chandra Ghivela (IIIT Nagpur & VNIT Nagpur, India); Shankar Bhattacharjee (IIIT Nagpur & IEST Shibpur, India)
1571178681 11:30	Power Density and Aperture Modeling of Phased Array Antenna for WPT System Utilizing 3D Spherical Coordinate System in Radiating near Field Nabanita Saha and Ifana Mahbub (University of Texas at Dallas, USA)
1571184653 11:45	Label-Free Glucose Sensing Using a High-Q Terahertz Metamaterial Absorber Afzaal Ahmad (University of Glasgow, UK), Muhammad Zubair (University of Leicester, UK), Vimal Kumar Chaudhary, Jalil Ur-Rehman Kazim, Muhammad Ali Imran and Qammer Abbasi (University of Glasgow, UK)
1571185060 12:00	Co-Located Individually Excited Dual-Band Miniaturized Loop Antennas Utilizing Inherent Impedance Matching for Wearable RF Applications Arthur Gratas and Nhat Truong (San Diego State University, USA), Sanghamitra Das (Jones Microwave Inc., Canada), Satish K. Sharma (San Diego State University, USA)
1571185209 12:15	On the Effects of Dielectric Loading on a Conformal Ultrawideband Antenna for on-Body Biomedical and WBAN Applications Viswarupa Vallabhaneni and Areeba Jadoon, Kalyan C Durbhakula, Sayan Roy (University of Missouri, USA)
1571185008 12:30	A Compact Frequency-Reconfigurable Conformal Antenna for Sub-6 GHz Body-Centric Health Monitoring Applications Tiwari Poonam (IIT Indore, India), Vishant Gahlaut (Banasthali Vidyapith, India), Saptarshi Ghosh (IIT Indore, India)
1571184779 12:45	Tunable Terahertz Antenna Using Silicon-Based Reconfiguration for Biomedical Applications Sri Deepika Aishwarya Lakshmi Vudattu, Bappaditya Roy (VIT-AP University, India), K B S Sri Nagini (Siddhartha Academy of Higher Education, India)

Session Code: We-TO-S2.7

11:00-13:00

Hall: Atelier -2

Session Title:	Special Session-11: Intelligent Surfaces and Wearable Technologies for Future Wireless Systems
Session Chair(s):	Debanjali Sarkar (VIT-AP University, India) & Arvind Kumar Sharma (SAMEER, India)

1571183305 11:00	A High Performance Vivaldi Antenna Array for Breast Tumor Detection V L Bhavani Maddirala (Lakireddy Bali Reddy College of Engineering, India), Divya Chaturvedi (IIIT, Pune, India), Tiru Ganesh (SRM University-AP, India), Ramesh Reddy Bojja (Lakireddy Bali Reddy College of Engineering, India)
1571184539 11:15	Design and Performance Comparison of Metasurface-Enhanced Monopole Antenna Sensors for Breast Tumor Detection Tiru Ganesh (SRM University, India), V L Bhavani Maddirala (Lakireddy Bali Reddy College of Engineering, Mylavaram, India), Divya Chaturvedi (IIIT, Pune, India), Sreenivasulu Tupakula (SRM University, India)
1571184703	Quarter-Mode Substrate Integrated Waveguide Based Quad-Band Ultra-Thin Wearable Antenna

11:30	Mounika Durga A and Chandu DS (VIT-AP University, India)
1571184942	Artificial Magnetic Conductor-Backed Flexible Antenna for Wearable Applications
11:45	Partha Pratim Shome (SR University, India), Debanjali Sarkar and Molabanti Siva Naga Lakshmi (VIT-AP University, India)
1571184966	A Compact Wider Bandwidth Implantable Antenna for Implanted Biomedical Devices
12:00	Dhanushya Sree Kothamasu (VFSTR University, India), Anil Kumar Nayak (VIT AP University, India), Saptarshi Ghosh (IIT Indore, India), Amalendu Patnaik (IIT Roorkee, India)
1571188591	On the Radial and Angular Components of Complex Poynting Vector Around Infinitesimal Electric Dipoles Embedded in Lossy Medium
12:15	Debdeep Sarkar (IISc, India)
1571173631	Characterization of a Highly Flexible UWB Antenna for Body-Centric Wireless Communications
12:30	Dhayanithi G (DRDO, India), Praveena A (PSG College of Technology, India)
1571184988	Compact Dual-Ring Slot Microstrip Antenna with Modified Ground Structure for Sub-6 GHz Wearable Systems
12:45	Anisha Biswal (SRM Institute of Science and Technology, India), Ranjith Kumar R and Parthasarathy Ramanujam (NIT, Trichy, India), Ashwin Tom Reji, R Thrisha and Shabeeb Ahamed KP (SRM Institute of Science and Technology, India)

Session Code: We-TO-S2.8

11:00-13:00

Hall: Atelier -3

Session Title:	Special Session-13: Millimeter-Wave & THz Planar Vacuum Electronics for next-Gen Communications
Session Chair(s):	Ayan K. Bandyopadhyay (CSIR-CEERI, India) & Amitavo Roy Choudhury (CSIR-CEERI, India)

1571174674	A Simulation Study on Reduced Graphene Oxide (rGO) Cold Cathode Based Electron Gun
11:00	Subhrajit Manna, Vikram Rawat, Asish Kumar Singh, Sushil Kumar Shukla, Tejendr Pratap Singh and Ranjan Kumar Barik (CSIR-CEERI, India)
1571179697	Design of Quantum Dot Based Photonic Crystal Cavity for Sub-Terahertz Communication Systems
11:15	Rahul Laha (CSIR-CEERI, India), Subham Chowdhury (AcSIR, India), Sai Krishna Kurukundu (BITS-Pilani, India), Hasina Khatun and Anirban Bera (CSIR-CEERI, India)
1571182476	Thermal Design of the Collector for Folded Waveguide TWT for THz Application
11:30	Chirag Prakashchandra Mistry and Amitavo Choudhury (CSIR-CEERI, India)
1571183351	Thermal Design of the Curved Fin Radiator to Improve Heat Dissipation by Radiation of High Power TWT Application
11:45	Chirag Prakashchandra Mistry and Amitavo Choudhury (CSIR-CEERI, India)
1571184655	Design and Analysis of W-Band Folded Waveguide Slow-Wave Structure for Travelling Wave Tube
12:00	Amitavo Choudhury (CSIR-CEERI, India), Suvojit Bhattacharjee (IIT Bombay, India), Debasish Pal, Chirag Prakashchandra Mistry, Subhradeep Chakraborty and Pawan Pareek (CSIR-CEERI, India)
1571184670	RF Coaxial Coupler Integrated with Helix SWS for K-Band TWT
12:15	Amitavo Choudhury (CSIR-CEERI Pilani, India), Vaishali Singh (Banasthali Vidyapith, India), Debasish Pal, Pawan Pareek, Subhradeep Chakraborty and Chirag Prakashchandra Mistry (CSIR-CEERI, India)
1571188422	Design of W-Band Pillbox Window with Impedance Matching Section for Photonic Crystal (PhC) Based High-Power Source
12:30	Rahul Laha and Vipul Koserwal (CSIR-CEERI, India), Subham Chowdhury (AcSIR, India), Hasina Khatun, Anirban Bera, Ayan Kumar Bandyopadhyay (CSIR-CEERI, India)
1571172920	Design of a Q/V-Band 100W Space TWT for Next-Generation Satellite Payloads
12:45	Ambrish Ghadiya, Santhosh Kumar Ramagiri, Shilpi Soni (ISRO, India)

Session Code: We-TO-S2.9

11:00-13:00

Hall: Natika

Session Title:	Special Session-16: Novel theory, design, analysis, and applications of reconfigurable intelligent surfaces
Session Chair(s):	Debidas Kundu (IIT Delhi, India) & Uday Khankhoje (IIT Madras, India)

1571184069	Electromagnetic Modeling of RIS-Antenna Configuration Using MoM-PO Approximation
11:00	Sourasami Nandi, Soumyajit Roy, Sandip Ghosal (NIT Rourkela, India)
1571184805	Digital Coded Metasurface Design Based on Deep Learning Technique: A Study
11:15	Sanskriti Raju, Amrit Prasad Behera, Jogesh Chandra Dash (NIT Rourkela, India)
1571184875	Design of a 1-Bit Coding Metasurface with Prephasing to Mitigate the Quantization Lobe Under Plane Wave Incidence
11:30	Deepak Kumar Sahoo (IIT Roorkee, India), Debidas Kundu (IIT Delhi, India), Amalendu Patnaik (IIT Roorkee, India)
1571188281	Reconfigurable Metasurface-Based Polarization Converter for 1 to 40 GHz
11:45	Garima Joshi (IIT Kanpur, India), Anamiya Bhattacharya and Sri Priyanshu (ISRO, India), R Vijaya (IIT Kanpur, India)

1571188451 12:00	Design of a Self-Powered 1-Bit Coding RIS for 5G Communications at N78 Band Misbah Fatima and Ebha Deepti Singh (IIIT Delhi, India), Ruchi (Chandigarh University, India), Debidas Kundu (IIT Delhi, India), Vivek A Bohara (IIIT Delhi, India)
1571188533 12:15	On the Pathloss Characteristics of RIS-Enabled Sub-6 GHz 6G Indoor Wireless Channels Raju Malleboina and Debdeep Sarkar (IISc, India)
1571184606 12:30	A Scalable, Low-Cost, and Programmable 1-Bit Generic Metasurface Controller Board for Precise Voltage Biasing Adarsh Kumar Nayak (C-DOT, India) and Amit Kumar Karna (Centre for Development of Telematics, India)
1571184973 12:45	A 1-Bit Reconfigurable Intelligent Surface Codebook for Adjacent Beam Switching Using Binary Phase Control Anjana Krishna, Ashwani Kumar and Soumava Mukherjee (IIT Jodhpur, India)

Session Code: We-Ind-S2

11:00-13:00

Hall: Liwa-F

Industry Exhibition

Session Code: We-TP-S2.10

11:00-13:00

Hall: Liwa Floor

Student Design Contest

Session Code: We-PSP-S2.11

11:00-13:00

Hall: Liwa Industry Business Lounge

Session Title:	Platinum Sponsor Talk
Session Chair(s):	Sandeep Chaturvedi (GAETEC, India)

Industry Session:1 11:00-11:30	
Industry Session:2 11:30-12:00	
Industry Session:2 12:00-12:45	

LUNCH BREAK (13:00-14:00)

Session Code: We-TO-S3.1

14:00-16:00

Hall: Vembanad-1

Session Title:	Special Session-3: Advance Techniques for Rugged and Ultra Low Power Wireless Transponders
Session Chair(s):	Nuno Borges Carvalho (Universidade de Aveiro, Portugal) & Paolo Mezzanotte (University of Perugia, Italy)

Keynote: 14:00	Energy-Sustainable IoT: SWIPT and LEO Satellite Integration Nuno Borges Carvalho (Universidade de Aveiro, Portugal)
1571172685 14:30	Compact Encoding in Chipless RFID via RCS and Polarization Diversity Amit Kumar Baghel, Vinicius Magno Uchoa Lima Oliveira, Nuno Borges Carvalho and Pedro Pinho (UA - Universidade de Aveiro & IT - Instituto de Telecomunicações, Portugal), Ajit Singh (Manav Rachna International University, India)
1571173302 14:45	An UHF-Band Rectenna with Material- and Location-Independent Operation Enabling Long-Range Energy Harvesting for RFID and IoT Nodes Michael Benegiamo and Valentina Palazzi (University of Perugia, Italy), Gabriele Marasca and Aldo Romani (University of Bologna, Italy), Rudi Paganelli (CNR, National Research Council, Italy), Paolo Mezzanotte (University of Perugia, Italy)
1571187404 15:00	Enhancing near-Field Communication Coil Performance Using Metasurfaces Zahra Hamzavi-Zarghani and Jasmin Grosinger (Graz University of Technology, Austria)
1571173466 15:15	A Scalable Rectenna with Built-in Resistance Compression Network Gopika R and Chinmoy Saha (IIST, India)
1571179820 15:30	Laterally-Placed Metasurface Enhanced Circularly Polarized Wireless Power Transfer System for IoT Applications in the ISM Band Nilanjan Dutta, Shrabani Mukherjee and Kaushik Mandal (University of Calcutta, India)
1571188552	RFID-Driven Smart Agriculture: An Approach for Soil Salinity Detection

15:45 Debi Dutta, Simone Genovesi, Giuliano Manara and Filippo Costa (University of Pisa, Italy)

Session Code: We-DC.2-S3.2

14:00-16:00

Hall: Vembanad-2

Session	Defence Cluster-2
Session Chair(s):	L. C. Mangal (DG (TM) DRDO, India) & M. Sheikh Althaf (Director, LRDE, DRDO)
Panel Speaker 1: 14:00	Suchith Rajagopal, Scientist H, LRDE, DRDO, India
Panel Speaker 2: 14:24	B N Loksha, Scientist G, CASDIC, DRDO, India
Panel Speaker 2: 14:48	Ms Hemlatha, Scientist G, DRAL, DRDO, India
Panel Speaker 3: 15:12	Dr Rajkumar, Scientist G, DEAL, DRDO, India
Panel Speaker 4: 15:36	Dr M Santra, Scientist H, MTRDC, DRDO, India

Session Code: We-TO-S3.3

14:00-16:00

Hall: Vembanad-3

Session Title:	Special Session-15: New Frontiers in Advanced Beam Forming using Reconfigurable and Modulated Metasurfaces (Part-2)
Session Chair(s):	Zhi Ning Chen (NUS, Singapore) & Ananjan Basu (IIT Delhi, India)

Keynote: 14:00	Advancement of Metamaterials-Based Antennas (Metantennas): From Hype to Reality Zhi Ning Chen (NUS, Singapore)
1571173504 14:30	Wide-Angle Beam Scanning Using Three-Bit Reconfigurable Intelligent Reflecting Surface for 5G Application Prashant Kumar Singh and Sonali Arya, Jyoti, Ashwani Kumar, Manoj Kumar Khanna (University of Delhi, India)
1571184021 14:45	Sub-Terahertz Far-Field Beam Steering Using a Two-Bit Graphene-Based Reconfigurable Intelligent Surface for 6G Applications Abhishek Chauhan, Amit Kumar Singh, Rahul Mondal and Akhilesh Kumar (IIT, Patna, India)
1571184036 15:00	Reflective Metasurface Based Linear to Circular Polarisation Converter for mmWave Applications Rahul Mondal, Praveen Babu Garji, Akhilesh Kumar and Amit Kumar Singh (IIT Patna, India)
1571184718 15:15	Circularly Polarized Hemispherical Reflective Metasurface-Backed Phased Array for 6G HAP-Based NTN Communications Sonika Priyadarsini Biswal (VVDN Technology, India), Satish K. Sharma (San Diego State University, USA)
1571184751 15:30	Additively Manufactured Wideband Transmissive Metasurface for Dual-Beam, Dual-Mode OAM Beams Generation Akhilesh Kumar, Rahul Mondal and Amit Kumar Singh (IIT Patna, India)
1571188457 15:45	A Conformal Metasurface Inspired Dual Band Planar Antenna for UAV and HAPS Applications Subhradeep Chakraborty (CSIR-CEERI, India), Mahesh P Abegaonkar and Ananjan Basu (IIT Delhi, India)

Session Code: We-3MT-S3.4

14:00-16:00

Hall: Grand Salon-1

3-Minute Thesis

Session Code: We-TO-S3.5

14:00-16:00

Hall: Grand Salon-2

Session Title:	Special Session-1: Artificial Intelligence and Machine Learning for Next-Generation Microwave, Antenna, and Sensor Systems
Session Chair(s):	Zubair Akhter (Technology Innovation Institute (TII), UAE) & Ravi Kumar Arya (Zhongshan Institute of Changchun University of Science and Technology, China)

1571173426 14:00	Deep Semi-Supervised Tandem Autoencoder for Split-Ring Resonator Loaded Antenna Design Anirban Chaudhuri and Debdeep Sarkar (IISc, India)
1571173599 14:15	Predicting of 2D Array Antenna Performance Using Machine Learning Approaches at V-Band Gayatri Routhu (SRM University AP, India), Manas Sarkar (ISRO, India), Rupesh Kumar (SRM University AP, India)
1571173793 14:30	Machine Learning-Driven Universal Platform for Inverse Engineering Ravi Kumar Arya (Zhongshan Institute of Changchun University of Science and Technology, China), Maxon Okramcha and Zuobin Wang (Changchun University of Science and Technology, China), Ashwani Kumar (University of Delhi, India), Maifuz Ali (DSPM IIIT Naya Raipur, India), Junwei Dong and Shiyuan Kong

	(Zhongshan Institute of Changchun University of Science and Technology, China), Lijuan Li (Changchun University of Science and Technology, China)
1571183839 14:45	An Unsupervised Machine Learning Framework for Anomaly Detection in Antenna Surface Currents to Minimize Beam Chromaticity Shree Nandini Anand T S (Siddaganga Institute of Technology, India), Keerthipriya Sathish and Mayuri Sathyanarayana Rao (Raman Research Institute, India), Sunitha NR (Siddaganga Institute of Technology, India), Debdeep Sarkar (IISc, India)
1571184352 15:00	An IoT-Integrated System for Robust Microwave Dielectric Characterization Using Hybrid k-Means Ensemble Learning Ahmad Khuroo (Nazarbayev University, Astana, Kazakhstan), Zubair Akhter (Technology Innovation Institute (TII), UAE), Abhishek Jha (IIT Tirupati, India), Atif Shamim (KAUST, Saudi Arabia), Mohammad Hashmi (Nazarbayev University, Kazakhstan)
1571184668 15:15	Circular Antenna Array Pattern Synthesis Using Archimedes Optimization Algorithm Anoop Raghuvanshi and Abhinav Sharma (University of Petroleum and Energy Studies, India), Abhishek K Awasthi (Paras Antidrone Technologies Pvt. Ltd., India)
1571185105 15:30	Dataset Generation and Deep Learning Based Design of Transmissive Polarization Insensitive Metasurface Using Python-CST-API and PIM-CNN M Gopal Krishna (Delhi Technological University, India), Anand Kumar (IISc, India), Saksham Jain (Delhi Technological University, India), Debdeep Sarkar (IISc, India)
1571188378 15:45	Deep Learning Based Performance Prediction of Sustainable Microwave Absorbers Jai Govind P, Naveen Kumar (Christ University, Bangalore, India)

Session Code: We-TO-S3.6

14:00-16:00

Hall: Atelier -1

Session Title:	Special Session-6: Applications of RF/Microwave in Biomedical and Biosensing Devices
Session Chair(s):	Debarati Ganguly (IIIT Kottayam, India) & Jayanta Mukherjee (IIT Bombay, India)

1571173773 14:00	Advance Intraocular Design over Conventional Retinal Prosthetics: UWB on-Lens Antenna Ravi (University of Delhi, India), Sumon Modak (NIT Warangal, Telangana, India), Vikrant Kaim (IIT Delhi, India), Amit Birwal (University of Delhi, India), Binod Kumar Kanaujia (Dr. B.R. Ambedkar NIT, India)
1571181919 14:15	Bio-Telemetry-Enabled Miniaturized CP Implantable Antenna Using Meandered Loop Gopinath Samanta and Jeet Ghosh (LNMIIT, India), Tarakeswar Shaw (Dayananda Sagar College of Engineering, India), Shankar Bhattacharjee (IIIT Nagpur & IEST Shibpur, India)
1571184586 14:30	Modulated Metasurface Loaded Series-Fed Microstrip Patch Antenna Array for near-Field Focusing and Biomedical Applications Aishik Roy (IIIT Kottayam, India), Swarnadipto Ghosh (University of Ghent, Belgium), Debarati Ganguly (IIIT Kottayam, India)
1571185103 14:45	A Multiband Flexible Patch Antenna for Wearable Biomedical Applications Dibyajyoti Mukherjee, Aamir Saud Khan, Sahitya Roy and Dhiman Mallick (IIT Delhi, India)
1571185192 15:00	A Loop Antenna Based near-Field Inductive Wireless Power Transfer System for IMDs Alok Chandra Joshi and Debdeep Sarkar (IISc, India)
1571188632 15:15	Non-Invasive Spiral Antenna Applicator for Hyperthermia Application of Skin/Neck Cancer Navneet Kaur, Aarti Bansal, Geetanjali Singla, Hitender Gupta and Rajesh Khanna (Thapar University, India)
1571172403 15:30	Conformal Open-Slot Hexagonal Antenna for Body-Worn Applications Uma Maheswari Yarram, Bappadittya Roy, T. Hemalatha (VIT-AP University, India)
1571184555 15:45	Miniaturization and Gain Enhancement of Inverted-Hat Monopole Antenna Maifuz Ali, Shailendra Kumar Paswan, Bipin Chandra Mandi (DSPM IIIT Naya Raipur, India), Ashwani Kumar (University of Delhi, India), Ravi Kumar Arya (Zhongshan Institute of Changchun University of Science and Technology, China)

Session Code: We-TO-S3.7

14:00-16:00

Hall: Atelier -2

Session Title:	Special Session-12: Microwave Assisted Plasma Technologies: Devices, Processes, and Applications
Session Chair(s):	Udit Narayan Pal (CSIR-CEERI, India) & Shivendra Maurya (CSIR-CEERI, India)

1571184874 14:00	Microwave Testing of n-Ga₂O₃/p-Si Diodes via RF Sputtering for High-Frequency Applications Mandira Biswas, Amartya Paul, Hemant Kumari and Shubhankar Majumdar (NIT Meghalaya, India)
1571188371 14:15	Electromagnetic and Particle-in-Cell (PIC) Simulation of 12 kW s-Band CW Magnetron Shivendra Maurya, Kanagaraj N., and Rajendra Verma (CSIR-CEERI, India)
1571188439 14:30	Characterisation of Microwave-Induced Cold Plasma Jet at Room Temperature Priti Pal, Alok Mishra, Udit Narayan Pal, Rajat Garg, Anand Pratap Singh, Ram Prakash Lamba, Deepender Kant and Shivendra Maurya (CSIR-CEERI, India)
1571188467 14:45	Study of Generation and Characterization of a Microwave-Based Compact ECR Plasma Source (CEPS) Thruster in a Small Volume Expansion Chamber

	Neethu Balachandran, Ramesh Narayanan and Debaprasad Sahu (IIT Delhi, India)
1571188473 15:00	Diagnosis of Cold Atmospheric Plasma Jet Suitable for Biomedical Application Rajat Garg, Minakshi Singh, Anand Pratap Singh, Priti Pal, Ram Prakash Lamba, Udit Narayan Pal (CSIR-CEERI, India)
1571188490 15:15	Design and Development of Waveguide Based Microwave Plasma Source (MPS) Alok Mishra, Anand Pratap Singh, Priti Pal, Rajat Garg, Ram Prakash Lamba, Deepender Kant, Udit Narayan Pal, Shivendra Maurya (CSIR-CEERI, India)
1571188604 15:30	Design Analysis of Waveguide Assisted Microwave Induced Plasma (MIP) Alok Mishra, Priti Pal, Subhradeep Chakraborty, Ram Prakash Lamba, Shivendra Maurya, Udit Narayan Pal (CSIR-CEERI, India)
1571184699 15:45	Photonic Measurement of Multiple Microwave Frequencies via Frequency Shifting and Four-Wave Mixing in a Semiconductor Optical Amplifier Nitu Kumari, Amitesh Kumar, Annapurna Kumari (IIT ISM Dhanbad, India)

Session Code: We-TO-S3.8

14:00-16:00

Hall: Atelier -3

Session Title:	Special Session-4: Advancements in RF Frontends and Enabling Software Solutions (Part-2)
Session Chair(s):	Girish Chandra Tripathi (Tejas Networks Ltd, India) & Arjuna Madanayake (Florida International University, USA)
Invited Speaker: 14:00	Engineering the Invisible: Advances in Phased Array Antenna Frontiers Ashutosh Kedar (DRDO, India)
1571173318 14:30	Complexity-Optimized Vector-Switching Digital Predistortion Using Basis-Propagation Selection for RF Power Amplifiers Shipra Shipra and Thomas Eriksson (Chalmers University of Technology, Sweden)
1571173353 14:45	A Testbed on Xilinx RF-SoC for Data-Driven RF Power Amplifier AI/ML-Model Development Hasitha Weerasooriya, Kasun Shashilaksha Karunanayake, Buddhipriya Gayanath and Arjuna Madanayake (Florida International University, USA), Shubhankar Majumdar (NIT Meghalaya, India)
1571173415 15:00	A Case for Agentic Transceivers in Physical AI-RF Circuits and Systems Arjuna Madanayake, Kasun Shashilaksha Karunanayake, Robert Hacker (FIU, USA), Chamira U. S. Edussooriya (University of Moratuwa, Sri Lanka), Shubhankar Majumdar (NIT Meghalaya, India), Leonid Belostotski (University of Calgary, Canada), and Ranga Rodrigo (University of Moratuwa, Sri Lanka)
1571173595 15:15	Reconfigurable Triple-Path Matching Network for Wide-Band and High-Efficiency Power Amplifier Hemant Kumari, Amartya Paul and Shubhankar Majumdar (NIT Meghalaya, India)
1571184957 15:30	Design of High-Throughput MMIC Parallel-Combined Power Amplifier for 5G Applications Indranil Karmakar, Ashok Chauhan and Kuldip Singh (CSIR CEERI, India), Shubhankar Majumdar (NIT Meghalaya, India), Pijus Kundu (CSIR-CEERI, India)
1571188653 15:45	Design of a 25 Watt, Octave-Band Power Amplifier with Switchable Band Pass Filters for Enhanced Harmonic Suppression Chiranjit Majumder and Nagaditya Poluri (IIT Kanpur, India)

Session Code: We-TP-S3

14:00-16:00

Hall: Liwa Floor

Session Title:	Technical Poster session-4
Session Chair(s):	Subhradeep Chakraborty (CSIR-CEERI, India)
1571185021	We-TP-S3.1 Low-Cost Radiometric Monitoring of Ionospheric and Auroral Variability in the Arctic Bhuvnesh Brawar, Harsha Avinash Tanti, Anismita Biswas and Anshul Shudhanshu, Abhirup Datta and Saurabh Das (IIT Indore, India)
1571188458	We-TP-S3.2 Diagnosis of Plasma-Exposed Seeds Using Atmospheric Cold Plasma Jet Priti Pal (CSIR-CEERI, India), Hansa Sehgal (BITS Pilani, India), Minakshi Singh, Anand Pratap Singh, Rajat Garg, Mahendra Singh (CSIR-CEERI, India), Mukul Joshi (BITS Pilani, India), Shivendra Maurya, Ram Prakash Lamba, Udit Narayan Pal (CSIR-CEERI, India)
1571188556	We-TP-S3.3 Detection and Localization of Metallic Fragments in Biological Tissues Using Millimeter Wave Radar Md Sarfaraz Anwar, Pankaj Kumar, Nishchal Gaur, Shobha S Ram (Indraprastha Institute of Information Technology Delhi, India)
1571184552	We-TP-S3.4 A Compact 1:3 Unequal Wilkinson Power Divider for Ultra-Wideband Applications Kailash Kumar, Raj Aryan, Ajay Prudhvi Raj Pasupula, Kamla Prasan Ray (DIAT, India)
1571184553	We-TP-S3.5 Graphical Method for Designing Distributed Matching Network for Broadband GaN PAs Siddharth Thakur and Harshvardhan Singh, Shubham Sharma, Nagaditya Poluri, Avinash Lahgere, Yogesh Chauhan (IIT, Kanpur, India), Sandip Kumar (Cadence Design Systems, India)
1571184615	We-TP-S3.6 RF Front End Receiver for IRNSS/GPS in 180nm CMOS Technology

		Rishabh Trivedi, Rajiv Bhatia, Akash Dang, S N Mittal, Ashutosh Yadav (Semi-Conductor Laboratory, India)
1571184616	We-TP-S3.7	Design and Analysis of Wide Band Linear to Circular Polarization Converter for Sub-THz Applications Murtaza Waheed and Javid Ahmad Ganie (IIT Jammu, India), Mingyan Zhong and Qusay Raghib Ali Al-Taai (University of Glasgow, UK), Kushmanda Saurav (IIT Jammu, India), Chong Li (Rankine Building & University of Glasgow, UK)
1571184701	We-TP-S3.8	Novel Varactor-Based Network for Enhancing Efficiency of Class-J RFPA by Second Harmonic Injection Nishant Jaiswal (ISRO, India), Akash Mecwan (Nirma University, India), Deepak Mishra, Samriti Kumar Garg (ISRO, India), Gourav Salla, Yogesh Chauhan, Nagaditya Poluri (IIT Kanpur, India)
1571184822	We-TP-S3.9	Modified T-Shaped Diplexer-Based Quasi-Reflectionless Bandpass Filter for ISM-Band Applications Asish Nayak and Abhishek Jha (IIT Tirupati, India)
1571184876	We-TP-S3.10	Optimization of Technology Nodes and Cascading Stages to Design CMOS LNA for D Band 6G Receivers V Abhiram (NIT Surathkal, India), Nagendra P Pathak (IIT Roorkee, India), Sushil Kumar Pandey (NIT Surathkal, India)
1571188148	We-TP-S3.12	Broadband 6-Bit MMIC Digital Attenuator with Minimal Phase Variation and High Attenuation Precision Uttam Kumar (IIST, India), Harshita Tolani, Vivan Prakash, Anamiya Bhattacharya, Vinit Kumar (ISRO, India), Chinmoy Saha (IIST, India), Mukesh Patel and Ch.V.N. Rao (ISRO, India)
1571188404	We-TP-S3.13	Third Order Dual-Mode Dual Band Half Mode SIW Cavity Ch Suresh Kumar, Runa Kumari, Harish V. Dixit (BITS Pilani, India)
1571188624	We-TP-S3.14	Ultra Compact Highly Sensitive Self-Diplexing HMSIW Sensor for Solid Materials Detection Sri Deepika Aishwarya Lakshmi Vudattu (VIT-AP University, India), V Jaya Prakash (PSCMR College of Engineering & Technology, India), K B S Sri Nagini (Siddhartha Academy of Higher Education, India)
1571184856	We-TP-S3.15	A Novel Frequency-Reconfigurable Antenna Employing Liquid Dielectric Variation Shrinjoy Chatterjee (IEM, India), Anamika A Kamath (Hex20 India Pvt. Ltd., India), Nrusingha Charan Pradhan (Central University of Karnataka, India), Chinmoy Saha (IIST, India)
1571184884	We-TP-S3.16	Multi-Layered Planar Antenna in LTCC Technology for V-Band Communication Applications Subhendu Chakraborty, Subhradeep Chakraborty, Dheeraj Kumar Kharbanda, Nikhil Suri, Debasish Pal and Ayan Kumar Bandyopadhyay (CSIR-CEERI, India)
1571184926	We-TP-S3.17	Wideband Dual Circularly Polarized Reconfigurable Cross-Dipole Antenna Using Parasitic Elements Akanksha Singh (Noida Institute of Engineering and Technology, Greater Noida), Manoj Kumar Meshram (IIT BHU, India)
1571185011	We-TP-S3.18	Angular Spread Measurement Using Electronically Switched Beam Technique of Conformal 2 × 2 Patch Array Antenna Indar Surahmat, Sarah Hazem Mostafa Shaaban and Dirk Heberling (RWTH Aachen University, Germany)
1571185033	We-TP-S3.19	Ultra-Wideband Patch Antenna for 5G Mobile Applications Shobhit Tiwari and Ashutosh Vishwakarma (Keysight Technologies, India)
1571185109	We-TP-S3.20	A Dual Band Circularly Polarized Antenna with Suppressed Harmonic for Transponder System Rinke Chopra (IIT Indore, India)
1571188143	We-TP-S3.21	The Natural Resonance Frequency of a Slotted Rectangular PEC Plate and Its Physical Aspects Nandan Bhattacharyya (RCCIT, India), Jawad Y Siddiqui and Yahia Antar (RMC, Canada)
1571188286	We-TP-S3.22	Effective and Simple Realization Methodology of Compact Patch Antenna for GNSS Applications Meenal, Ashish Chauhan, S N Mittal (Semi-Conductor Laboratory, India)
1571188565	We-TP-S3.23	Regression-Based S11 Prediction of Slot-Loaded Microstrip Patch Antennas Using MATLAB Antenna Toolbox Abdul Lateef Haroon Phulara Shaik, Aaftab Zohra, K. Tanuja, and Rehamath Unnisa (Ballari Institute of Technology and Management, India)
1571188579	We-TP-S3.24	OAM Beam Generation Using Square Shaped Spiral Slot SIW Cavity Antenna Y Kavya Reddy and Srujana Kagita (IIT Tirupati, India)
1571188617	We-TP-S3.25	Investigation of Mutual Coupling Between Array Elements and TRM Shelter in an Active Phased Array Radar Operating in Lower VHF Band P Nandakumar and Ashik Paul (University of Calcutta, India), Jawad Y Siddiqui (RMC, Canada)
1571188638	We-TP-S3.26	A UHF Self-Deployable Quadrifilar Helical Antenna with Pinwheel Ground for CubeSats

		Arunya Paul (KIIT DU, India), Chinmoy Saha and Priyadarshnam Hari (IIST, India), Sudhakar Sahu (KIIT University, India)
1571188650	We-TP-S3.27	Passive Beam Steering Magneto-Electric Dipole Antenna Using Fluidic Gravitational Lens Shivangee Kashyap (Guru Ghasidas Vishwavidyalaya, India), Aditya Singh (IIT Bhilai, India), Ankita Jain (NIT Calicut, India)
1571188661	We-TP-S3.28	Frequency Reconfigurable U-Shaped Antenna for Cognitive Radio Applications Hirak Keshari Behera and Arjuna Muduli (JSPM University, Pune, India)
1571188717	We-TP-S3.29	High Gain Low RCS Broad-Band Antipodal Vivaldi Antenna Krithika Penagaluru (BMS College of Engineering, India), Soumya KK (DRDO, India), Preeti Kumari (CSIR-NAL, India), Vineet Gupta and Vijay Kumar Sutrar (DRDO, India)
1571184956	We-TP-S3.30	Triple-Band Terahertz Absorber for Refractive Index Sensing Applications Vikram Maurya and Sarthak Singhal (MNIT, India)
1571187992	We-TP-S3.31	Wideband Transmission Type Linear-to-Circular Polarization Converter with High Angular Stability for Millimeter-Wave Applications Javid Ahmad Ganie and Debdeep Sarkar (IISc, India), Kushmanda Saurav (IIT Jammu, India)
1571188497	We-TP-S3.32	Accelerating Electromagnetic Simulation with an Adaptive Frequency Sweep Toolbox Developed for MATLAB Shilpa T N Shilpa and Rakesh Sinha (NIT, Rourkela, India)
1571188597	We-TP-S3.33	Design of Compact 1-Bit Reconfigurable Intelligent Surface for Enhancing Wireless Coverage Praween Kumar Nishad and Ekant Sharma (IIT Roorkee, India), Prem Singh (IIIT Bangalore, India)
1571174405	We-TP-S3.34	Superconductor-Insulator-Superconductor Devices for Terahertz Applications Nagavenkata Anil Kumar Peddiraju, Santanu Sinha, Chiranjit Karmakar, Sharad Kumar Jain, Rakesh K Kaneriy, Yogita Sharma, Punam Tyagi and Jolly Dhar (ISRO, India)
1571185106	We-TP-S3.35	Dual-Ellipse Resonator-Based THz Metamaterial Biosensor with Enhanced Sensitivity for Early Cancer Detection Shrinjoy Chatterjee, Satyam Choudhary and Gobinda Sen (IEM Kolkata, India), Chinmoy Saha (IIST, India)
1571188696	We-TP-S3.36	High-Sensitivity Terahertz Metamaterial Biosensor Using Connected Concentric Circles for Early Stage Cancer Detection Shrinjoy Chatterjee (IEM Kolkata, India), Reshma Ramesh (IISc, India), Anamika A Kamath (Hex20 India Pvt. Ltd., India), Gobinda Sen (IEM Kolkata, India), Chinmoy Saha (IIST, India)
1571188738	We-TP-S3.37	X-Arm Circular Split-Ring Resonator Based Terahertz Metamaterial Biosensor for Cancer Detection Satyam Choudhary, Shrinjoy Chatterjee (IEM Kolkata, India), Anushka Sharma (Manipal University Jaipur, India), Gobinda Sen (IEM Kolkata, India), Chinmoy Saha (IIST, India)
1571184605	We-TP-S3.39	A Modular Framework Approach Towards RIS-Assisted JSAC Using AoA Estimation Dharshne S and Adarsh Kumar Nayak (C-DOT, India)
1571184903	We-TP-S3.40	A Comparative Study of Design Approaches for Sub-THz Power Dividers Based on Gap Waveguide Abhay Dwivedi, Priyansha Kaurav and Nagendra P Pathak (IIT Roorkee, India)
1571186912	We-TP-S3.41	Compact Four-Port MIMO Antenna Incorporating Parasitic Elements for Decoupling in 5G NR n79 Band Applications Prabhu kumar Kothavari, Venkata Rajasekhar Nuthakki (VIT-AP, India)
1571188517	We-TP-S3.42	Resource-Efficient Ridge-Regularized 2D Harmonic Memory Polynomial Modeling for Scalable Fixed-Point Implementation of Digital Predistortion Renu Rani and Smriti Keshri, Meenakshi Rawat (IIT Roorkee, India)
1571189588	We-TP-S3.43	Hybrid Microstrip-Fed Dual-Polarized Dielectric Resonator Antenna for 5G Millimeter-Wave Applications Abinash Gaya (Centurion University of Technology and Management, India), Jagannath Malik (IIT Patna, India)
1571188532	We-TP-S3.45	Compact Low Side-Lobe V-Band Horn with near-Symmetric Radiation Pattern for Compact Antenna Test Range (CATR) Applications Subhendu Chakraborty, Subhradeep Chakraborty, Debasish Pal, Ayan Kumar Bandyopadhyay (CSIR-CEERI, India)
1571187781	We-TP-S3.46	Analytical Study of a Rectangular Microstrip Patch Antenna Terminated in a Two-Layer Infinite Bio-Media Using Plane Wave Spectral Technique at 915 MHz Hari Shankar Singh and Vishal Srivastava (TIET, India), Asit Ranjan Mridha and Adarsh Barwad and Venkatesan Sampath Kumar (AIIMS, India)
1571184459	We-TP-S3.47	Coupled EM-Circuit Domain Analysis of Radiatively Excited Non-Linear Circuit Athul Shaji and K Vinoy (IISc, India)
1571188665	We-TP-S3.48	Enabling Battery-Free IoT Nodes Using a DC-Combined Rectenna Array for RF Energy Harvesting Sankar Reghunath, Manoj Kumar and Mohammad Jaleel Akhtar (IIT Kanpur, India)

1571185123	We-TP-S3.49	Multistatic GBSAR for Structural Health Monitoring of Indian Monuments: Conceptual Overview Bhupendra Kumar and A K Singh (DRDO, India), Jawed Kumar (IIT Guwahati, India), Manoj Kumar Meshram (IIT (BHU), India)
1571187998	We-TP-S3.50	Democratizing High-Fidelity 3D AR Mapping on Smartphones Using a Hybrid ToF-LiDAR System Vishal Kumar (Ocean2Sand, USA), Ajay K Poddar and Anisha Apte (Synergy Microwave Corporation, India), Jawad Y Siddiqui (RMC, Canada), Sampathkumar Veeraraghavan (Brahmam Innovations, USA), Yahia Antar (RMC, Canada)
1571188317	We-TP-S3.51	AI-Enhanced Platform for Democratizing CubeSat Design, Simulation, and Rapid Prototyping Vishal Kumar (Ocean2Sand, USA), Ajay K Poddar (Synergy Microwave Corporation, USA), Anisha Apte (Synergy Microwave Corporation, India), Jawad Y Siddiqui (RMC, Canada), Sampathkumar Veeraraghavan (Brahmam Innovations, USA), Yahia Antar (RMC, Canada)
1571188554	We-TP-S3.52	Design and Implementation of SAKHI Android Application for Gaganyaan Astronauts Smitha K S and Rizwana Aziz M P, Gayathri Girish, and Vinod S S (ISRO, India)

Session Code: We-SuF-S3

14:00-16:00

Hall: Liwa-IBL

Session Title:	Industry Business Lounge for Start-Up Forum
Session Moderator(s):	Ashutosh Kedar (DRDO, India)

Start-up Forum 14:00-16:00	MAPCON Start-up Forum (Power-F, iRFMW, Accordyne, Ci 4, N-Space Tech, Space Time 4D Printing Solutions)
--------------------------------------	---

Session Code: We-WAMS-S3

14:00-16:00

Venue: Cruise

Session Title:	Women in Antenna, Microwave and Space
Session Chair(s):	Rashounda Henderson (University of Texas at Dallas, USA) & Shruti Sinha (ISRO, India)
Panel Speaker:1 14:00	Ground Station Technology & New Satellites Padmavathy C S (ISRO, India)
Panel Speaker:2 14:30	Frontier Technologies at microwave and beyond for Aerospace Jolly Dhar (ISRO, India)
Panel Speaker:3 15:00	Bridging Theory and Reality: The Critical Role of RF Characterization Sathya Padmanabhan (Maury Microwave, USA)
Panel Speaker:4 15:30	Novel Antennas and Metasurfaces for Energy Harvesting, Wireless Power Transfer, Sensing, and Space Applications Elham Baladi (Polytechnique Montreal, Canada)

Works Session Code: Tu-Ind-S4

14:00-16:00

Hall: Liwa-F

Industry Exhibition
HIGH TEA BREAK (16:00-16:30)

Session Code: We-TO-S4.1

16:30-17:30

Hall: Vembanad-1

Session Title:	Advances in Computational Electromagnetics and AI-Driven Electromagnetic Material Discovery
Session Chair(s):	Vladimir Okhmatovski (University of Manitoba, Canada)

Invited: 16:30	Complexity Breaking Complexities in Computational Electromagnetics Francesco Andriulli (Politecnico di Torino, Italy)
Keynote: 17:00	Electromagnetic Material Discovery via Machine Learning and Research Lab Automation Yang Hao (Queen Mary University of London, UK)

Session Code: We-TO-S4.2

16:30-17:30

Hall: Vembanad-2

Session Title:	Special Session-19: Advances in Microwave-to-mmWave Characterization and Sensing of Materials
Session Chair(s):	Malgorzata Celuch (QWED, Poland) & Kamel Haddadi (University of Lille, France)

1571173611 16:30	Microwave Characterisation and 2D Sheet Resistance Imaging of Graphene Oxide and Reduced Graphene Oxide Lukasz Nowicki (QWED, Poland), Mila Milenkovic (National Institute of the Republic of Serbia, Poland), Malgorzata Celuch and Marzena Olszewska-Placha (QWED Sp. z o. o, Poland), Svetlana Jovanović Vučetić (National Institute of the Republic of Serbia, Poland)
1571173718 16:45	A Novel Silicon-Duroid Microwave Sensor for Classification of Volatile Organic Compounds Amartya Paul, Mandira Biswas, Hemant Kumari and Shubhankar Majumdar (NIT Meghalaya, India)
1571173781 17:00	New Instruments for Fast Industrial Testing of Copper Foils for 5G Applications Marzena Olszewska-Placha, Lukasz Nowicki and Bartlomiej Salski (QWED Sp. z o. o, Poland), Thomas Devahif (Circuit Foil Luxembourg, Luxembourg), Malgorzata Celuch (QWED, Poland)
1571173955 17:15	Dielectric Testing of Liquids with Resonant Methods in the 1-50 GHz Range Bartlomiej Salski, Adam Pacewicz and Piotr Czekala (Warsaw University of Technology, Poland)

Session Code: We-TO-S4.3

16:30-17:30

Hall: Vembanad-3

Session Title:	New Frontiers in RF Frontend-II
Session Chair(s):	Harshita Tolani (ISRO, India)

Invited: 16:30	Compound-Eye RF: Advancing Active and Passive Sensing at the Human-Microwave Frontier Changzhi Li (Texas Tech University, USA)
1571188625 17:00	Realization of a Wideband GaAs MMIC Amplifier for X-Band Applications Akshat Srivastava, Shrija Bhattacharyya, Harshita Tolani, Anamiya Bhattacharya and Vinit Kumar (ISRO, India), Chinmoy Saha (IIST, India), Mukesh Patel and Ch.V.N. Rao (ISRO, India)
1571184687 17:15	Ultra-Wide GaAs Based Double Balanced MMIC Mixer for 50MHz to 2.8GHz Band Prashant Prashant, Harshita Tolani, Vinit Kumar, Mukesh Patel and Ch.V.N. Rao (ISRO, India)

Session Code: We-TO-S4.4

16:30-17:30

Hall: Grand Salon-1

Session Title:	RF Filters-II
Session Chair(s):	Soumava Mukherjee (IIT Jodhpur, India) & Kirti Dhawaj (IIT Delhi, India)

1571184953 16:30	Experimental Validation of Miniaturized Sharp Rejection IBPF with Improved Spurious Response for Broadband RF Receivers Surendra Bitra, Vyshnavi Avusali (Astra Microwave Products Ltd, India), Venkata Satya Karthik Nayunipatrani Satya (Gitam University, India), Debaprasad Barad, Bhushan Deshpande and Balachary Molupogu (Astra Microwave Products Ltd, India)
1571184591 16:45	Design of Compact Dual Band Quarter Mode SIW Filter for Ku and Ka Band Applications Ganaraj P S (KIIT, India), Koushik Guha and Kavicharan Mummaneni (NIT Silchar, India), Jacopo Iannacci (Fondazione Bruno Kessler - FBK, Italy), Massimo Donelli (University of Trento, Italy), Mahesh Angira (NIT Hamirpur, India), Deepak Bansal (CSIR-CEERI, India)
1571184464 17:00	Development of Waveguide Band Pass Filters at D-Band and J-Band Dhruba Das, Sibabrata Mondal, Arun Kumar, Arijit Majumder, Patnam Hanumantha Rao (SAMEER, India)
1571184791 17:15	Multi-Band Varactor Tuned $\lambda/4$ Stub Bandpass Filter for Adaptive 5G NR Applications Tanvi Agrawal and Ananjan Basu (IIT Delhi, India)
1571184892 17:30	Development of a Tunable Microwave Photonic Filter Based on Stimulated Brillouin Scattering Anju Thomas, Koushik Basak, Pranav Kumar Pandey, Chandra Prakash Sharma and M. Senthilkumar (ISRO, India)

Session Code: We-TO-S4.5

16:30-17:30

Hall: Grand Salon-2

Session Title:	Focus Session on Energy Harvesting and Bio electromagnetics
Session Chair(s):	Nagaditya Poluri (IIT Kanpur, India)

Invited: 16:30	Reimagining Health Monitoring using Applied Electromagnetics George Shaker (University of Waterloo, Canada)
Invited: 17:00	Millimeter-wave Harvesting for Extra-terrestrial Energy: The REMPOWER European Project Anthony Ghiotto (IMS Research Center, France)

Session Code: We-TO-S4.6

16:30-17:30

Hall: Atelier-1

Session Title:	Antenna Arrays and Mutual Coupling
Session Chair(s):	Vineet Kumar Dad (ISRO, India)

1571162751 16:30	A Circularly Polarized MIMO Antenna with FSS-Based Decoupling for V2X Applications Natarajamani S and Pramith Aryan S (Amrita School of Engineering, India)
1571183615 16:45	Analysis of the Effect of Frequency Diversity on Range Dependent OAM Modes Generated by Finite Uniform Circular Array Biplob Biswas, Arijit De and Amitabha Bhattacharya (IIT Kharagpur, India)
1571183990 17:00	Incorporation of Element Pattern in the Antenna Array Ambiguity Function of MIMO Radar Debdeep Sarkar (IISc, India)

Session Code: We-TO-S4.7

16:30-17:30

Hall: Atelier-2

Session Title:	Wearable Antennas
Session Chair(s):	Ifana Mahbub (University of Texas Dallas, USA)

1571173516 16:30	A Seawater Antenna for Emergency Applications Massimo Donelli and Mohammedhusen Manekyia (University of Trento, Italy), Jacopo Iannacci (Fondazione Bruno Kessler - FBK, Italy), Girolamo Tagliapietra (Fondazione Bruno Kessler, Italy), Koushik Guha (NIT Silchar, India)
1571184163 16:45	Design and Analysis of a Dual-Band Wearable Antenna for WBAN Applications Bhavani Vantakala, Thanmai Gadagamma and Chilukuri Sulakshana and Kukkadapu Lakshman (Vardhaman Collage of Engineering, India)
1571173760 17:00	Crescent-Shaped Textile Antenna with Low SAR and Elliptical Polarization for 3.6 GHz Applications Ribhu Abhusan Panda, Ribhu and Prabhat Kumar Patnaik (Centurion University of Technology and Management, India), Dhruba Panda (Berhampur University, India)
1571173822 17:15	A Novel Low RCS Hexagonal Monocone Conformal Antenna for Military Aerial Vehicles Madhu A Ramkumar and Prasobh Martin (Aeronautical Development Agency, India)

Session Code: We-TO-S4.8

16:30-17:30

Hall: Atelier-3

Session Title:	Special Session-2: Adaptive and Resilient Antenna and Circuit Systems for Security, Defence, and Disaster Response (Part-1)
Session Chair(s):	Kaushik Mandal (University of Calcutta, India)

1571184118 16:30	Structure Segmentation for Performance Improvement of Planar Antenna and Its MIMO Huma Khalid (IIT Roorkee, India), Rajeev Jyoti (ISRO, India), Amalendu Patnaik (IIT Roorkee, India)
1571188586 16:45	Compact, Planar and Conformal Antenna Array Solution for Electronic Warfare Applications Urvi Joshi, Sanket Kalamkar and Rajesh K Singh (DIAT, India)
1571188594 17:00	3D Printed High Power Dual-Channel RF Rotary Joint for Aerospace and Defense Pavan Kumar Beechiganapalli, Sivareddy Devireddy, Abburu Venkata Guru Subramanyam, Senthil Kumar, and Neelavathy M (ISRO, India)
1571173892 17:15	Wide Band Circular Polarized Cross Dipole Antenna with Parasitic Enhancements for GNSS Applications Shahla K P, K C Chandini Devi, Shahul Hameed V (ISRO, India)

Session Code: We-TO-S4.9

16:30-17:30

Hall: Natika

Session Title:	Low Noise Amplifier-I
Session Chair(s):	Anamiya Bhattacharya (ISRO, India)

1571182704 16:30	A GaN-Based Ultra-Broadband LNA with Low NF, Flat Gain, and High Robustness for EW Applications Ashish Jindal (DRDO, India), Karun Rawat (IIT Roorkee, India), Ananjan Basu and Shibam K Koul (IIT Delhi, India)
1571184210 16:45	A 0.92 dB NF 13 GHz Low Noise Amplifier for 6G FR3 Applications in 90 nm SOI CMOS Indrajit Das, Hari Kishore Kakara, Sergiton David, Srikanth Srihari and Venkata Narayana Rao Vanukuru (GlobalFoundries, India)
1571188505 17:00	1176.45 MHz to 1602 MHz Wideband Low-Noise Amplifier for GNSS Receiver Systems Ganesh Bargaje, Kamini Singh, Avinash Singh, and Karun Rawat (IIT Roorkee, India)
1571188569 17:15	A W-Band Fundamental Signal Generator Using Improved Design and Simulation Methodologies in 65nm CMOS Process Samiyalu Usurupati, Immanuel Raja and Chinmoy Saha (IIST, India)

Session Code: We-SF-S4.10

16:30-17:30

Hall: Liwa Industry Business Lounge

Ask Me Anything (Erin Kiley)

Session Code: We-Ind-S1

16:30-17:30

Hall: Liwa-F

Industry Exhibition

WEDNESDAY-Dec 17, 18:30-20:00

CULTURAL FUNCTION AND AWARD CEREMONY

BANQUET DINNER

DAY-5

DECEMBER 18, 2025

Highlights

- 23 Technical Sessions
- Student Initiatives
- Valedictory

THURSDAY-Dec 18

Session Code: Thu-TO-S1.1

08:30-10:30

Hall: Vembanad-1

Session Title:	Special Session-8: Harnessing the Invisible: Innovations in RF Energy Harvesting and Wireless Power Transfer Systems
Session Chair(s):	Almudena Suarez (Universidad de Cantabria, Spain) & Taimoor Khan (NIT Silchar, India)
Invited: 08:30	Efficient Analysis of Compact Oscillator-Based Implementations in Self-Injection-Locked Radar, RFID Readers, and Wireless Power Transfer Almudena Suárez (Universidad de Cantabria, Spain)
1571171573 09:00	Optimized Single Port Fed Circular Slot Antenna Array for 5G RF Energy Harvesting Applications Rongala Arun and Shailesh, Amit Birwal and Kamlesh Patel (University of Delhi South Campus, India)
1571174334 09:15	An Ultrawideband and Highly Efficient Rectifying Metasurface Array for Wireless Power Beaming Sunanda Roy, Sakib Reza, and Ifana Mahbub (University of Texas at Dallas, USA)
1571184901 09:30	3-Bit Phase Quantized Transmissive Directional Focusing Meta Array Using Wavefront Engineering Technique for Wireless Power Transfer Sagar Bhattacharya, Somak Bhattacharyya and Thottappan M (IIT BHU, India)
1571183554 09:45	A Compact and Efficient 2.47 GHz Rectenna for Biomedical Applications in the ISM Band Sreejita Samanta, Soumava Biswas, Nilanjan Dutta, Shrabani Mukherjee and Kaushik Mandal (University of Calcutta, India)
1571184239 10:00	Electrically Small Circularly Polarized Rectenna with High Power Conversion Efficiency for Powering IoT-Based Health Care System Anjali Priya and Taimoor Khan (NIT Silchar, India)
1571189432 10:15	Efficient Closed Loop Configuration for Real Time Receiver Localization in Wireless Power Transfer Systems Kundan Sahu, Kathu Sudevan, Gopika R and Chinmoy Saha (IIST, India)

Session Code: Thu-TO-S1.2

08:30-10:30

Hall: Atelier-1

Session Title:	Special Session-14: Near-field Sensing and Imaging for Biomedical and Security Applications over MHz to THz Regime
Session Chair(s):	Branislav M Notaros (Colorado State University, USA) and Sukomal Dey (IIT Palakkad, India)
Keynote: 08:30	Emerging Applications of EM and AP in Medical Imaging, Clinical Diagnostics, and Radar Meteorology: Collaboration Between Academia, Industry, and Government Branislav M. Notaros (Colorado State University, USA)
1571173409 09:00	Detecting Hemoglobin Structural Variations Through Microwave Dielectric Analysis Using Horn Antennas Urvashi Singh, Lobzang Samdup, Nancy Modi, Jayanta Mukherjee and Anirban Sarkar (IIT Bombay, India)
1571173834 09:15	AMC-Backed SRR Antenna for Non-Invasive Lung Health Monitoring Preeti Tiwari and Himansu Sekhar Senapati, Animesh Biswas (IIT Mandi, India), Anirban Sarkar (IIT Bombay, India)
1571184102 09:30	Millimeter-Wave Frequency-Scanning Leaky-Wave Antenna for Contactless Vital Sign Monitoring System Debabrata K. Karmokar (University of South Australia, Australia), Anirban Sarkar (IIT Bombay, India)
1571184386 09:45	A Conformal Textile Antenna for Frequency-Diverse Spectral Regularisation Based Tomographic Microwave Breast Imaging Athul O Asok, Anjitha V and Sukomal Dey (IIT Palakkad, India)
1571184729 10:00	AMC-Backed Square Patch Dual-Band Monopole Antenna System for Wearable Non-Invasive Dual-Analyte Detection of Glucose Level and Hemoglobin in Human Blood Debarati Dutta and Mahesh P Abegaonkar (IIT Delhi, India), Anirban Sarkar (IIT Bombay, India)
1571184991 10:15	Numerical Modelling of Human Skin Permittivity Using Debye and Cole-Cole Models at Sub-THz Frequencies Piyush Kumar Singh (IIT, Roorkee, India), Ashutosh Rath (IIT ISM, India), Priyansha Kaurav (IIT Roorkee, India)

Session Code: Thu-TO-S1.3

08:30-10:30

Hall: Vembanad-3

Session Title:	Microwave Measurements and Techniques-I
Session Chair(s):	Dirk Heberling (IHF – RWTH Aachen University, Germany) & Shilpi Soni (ISRO, India)
Invited: 08:30	Application of Robotic Systems in Modern Antenna Measurements Dirk Heberling (RWTH Aachen University, Germany)
1571173366 09:00	Metasurface-Based High-Resolution Field Probe Mauricio Hernandez, Mohammad Omid Bagheri and Omar Ramahi (University of Waterloo, Canada)
1571173499 09:15	Laboratory Characterization and Field Testing of Ground Based GNSS Reflectometry System Diksha Gupta, Sunita Khokhar, Alok Pal, Akshay Pande, Ashok Rohada, Prantik Chakraborty, Pankaj K Nath, Ch.V.N. Rao and Ananya Ray (ISRO, India)
1571183489 09:30	CATF Measurements of EOS-09 Active Phased Array SAR Antenna with Pulsed Chirp Signals Yogendra Sahu, Partha Nandy, Himanshu Sharma, Ashok Rohada, Akshay Pandit Vetal, Ameys Kesarkar, Alok Pal, Amit Shukla, Binit Kumar Roy, Prantik Chakraborty, Pankaj K Nath, Milind B. Mahajan, and Ch.V.N. Rao (ISRO, India)
1571184559 09:45	Design and Development of Table-Top Antenna Test Range and Its Data Acquisition System Sri Priyanshu, Dinesh Jangid, Indra Prakash, Dharmendra Singh, Jigar Pandya (ISRO, India)
1571184888 10:00	Calibration of High Resolution GPR Using Numerical Modelling Diksha Sharma, Swati Shukla, Rutvi Dharav Patel, J. Rao and Pankaj K Nath, and Ch.V.N. Rao (ISRO, India)
1571188518 10:15	Analysis of Phase Noise in a VCO Using the Zero-Crossing Technique: Impact of Varactor Nonlinearity and Power Supply Santosh Kumar Bhagat and Ritabrata Bhattacharya (Cadence Design Systems, India)

Session Code: Thu-TO-S1.4

08:30-10:30

Hall: Grand Salon-1

Session Title:	Metamaterial and Leaky-wave Antennas
Session Chair(s):	Julien Sarrazin (Sorbonne Université, France) & Aritra Roy (Sorbonne Université, France)
Invited: 08:30	Fast-scanning Leaky-Wave Antennas for mmWave Sensing Julien Sarrazin (Sorbonne Université, France)
1571173788 09:00	Dual-Beam Leaky-Wave Antenna for Angle-of-Arrival Estimation at mmW Frequencies Tanguy Lopez and Julien Sarrazin (Sorbonne Université, France)
1571173150 09:15	Metamaterial-Based W-Band SIW Slot Antennas on Glass Integrated Passive Devices Shuping Li and Donglin Gao (Rutgers University, USA), Cheng-Hua Tsai and Chang-Sheng Chen (Industrial Technology Research Institute, Taiwan), Chung-Tse Michael Wu (Rutgers University, USA)
1571183480 09:30	A Metasurface-Based Wideband CP Patch Antenna with Partially Grounded and Improved Gain Deepak Ram, Amit Kumar Singh and Somak Bhattacharyya (IIT BHU, India)
1571184906 09:45	Zeroth-Order Mode Operated via-Free Metasurface Inspired Miniaturized Circularly Polarized Wearable Antenna Nibash Kumar Sahu and Ravi Kumar Gangwar (IIT ISM Dhanbad, India)
1571172256 10:00	Two-Dimensional Direction-of-Arrival Estimation with a Cascaded Leaky Wave Antenna Aritra Roy, Malick Niang, Tanguy Lopez and Julien Sarrazin (Sorbonne Université, France)

Session Code: Thu-TO-S1.5

08:30-10:30

Hall: Grand Salon-2

Session Title:	Novel Microwave Solutions for Biology and Medicine
Session Chair(s):	Akram Alomainy (Queen Mary University of London (QMUL), UK) & P N V Anil Kumar (ISRO, India)
Invited: 08:30	Resilient, Scalable and Flexible Wearable &EM Technologies for Next Generation Healthcare Akram Alomainy (Queen Mary University of London (QMUL), UK)
1571171097 08:45	FMCW Radar-Based Physiological Data Assessment Using EMD-CWT Approach Surya Prakash G and Rupesh Kumar (SRM University AP, India)
1571173617 09:00	Machine Learning Augmented RF Sensor for Non-Invasive Glucose Monitoring Suchanda Das, Anjan Kumar Kundu (University of Calcutta, India)
1571183869 09:15	Asymmetric Coplanar Waveguide-Fed Meander Line Antenna for Directional Hyperthermia Applications in Medical Body Area Networks Sheela Devi Aswathy Chandran and Aiswarya S (Amrita Vishwa Vidyapeetham, India)
1571184422 09:30	Design and Validation of a High-Gain, High-Isolation RF Receiver Front-End for 1.5T MRI Bhaskara S Naik, Rajesh Harsh, Tapas K Bhuiya, Arvind Kumar Sharma and Pratiksha Gole (SAMEER, India)
1571185128 09:45	Misalignment Mitigation in Low-Frequency Mammography Subtractive Imaging Farzan Mirshekari, Ghazaleh Tashtarian, Mauricio Hernandez, Hamid Akbari-Chelaresi, and Omar Ramahi (University of Waterloo, Canada)

Session Title:	Satellite Antennas and Payloads
Session Chair(s):	Priyadarshnam H (IIST, India) & Shrikanth Reddy (IIT Palakkad, India)
1571172926 08:30	Design of Ku-Band Multi-Mode Monopulse Tracking Waveguide Feed for Satellite Communication Neeresh Kumar and Seema Doongarwal (BEL, India)
1571182450 08:45	Machine Learning Assisted Design and Optimization of Wide-Angle Steering Reflector Antenna with Isoflux Profile Ramesh Chandra Gupta, Vijay Kumar Singh and Milind B Mahajan (ISRO, India)
1571184598 09:00	Compact Ring Focus Reflector Antenna System for C-Band Troposcatter Communication Neeresh Kumar, Durgesh Singh, Akshay Warkade, and Bal Mukund Jha (BEL, India)
1571184640 09:15	Geodesic a-Sandwich Radome Analysis in s-Band Manjushree Tamang, Aghnesh M S, Naveen Kumar Vishwakarma, Sreejith C A and Beenamole K S (DRDO, India)
1571184974 09:30	Optimized Dual-Band Feed Design for a 4.5m Cassegrain Antenna with Fixed Geometry Sandip Sankar Roy, Sandesh Bhimrao Mane, K Sangeetha, Mir Sardar M and Koteswara Rao K (ISRO, India)
1571184519 09:45	Integrated UAV Performance Across Antenna Placement and Virtual Flight Test Analysis Anudeep Bellary, R Akhil Karthik and Srivani Kothidigi (Altair Engineering, India)

Session Title:	Slotted and Guided Wave Antennas
Session Chair(s):	Basudev Majumder (IIST, India) & Sandesh Bhimrao Mane (ISRO, India)
1571173139 08:30	Mode-Selective Dual-Band SWA for DBS and 6G Kalyan Sundar Kola, Thierry Le Gouguec and Rozenn Allanic (University of Brest, France)
1571173920 08:45	Design and Optimization of a Reconfigurable Slotted Array Antenna Using Varactor Diodes Bhargava Siva Sai Somisetty and Chinmoy Saha (IIST, India), Massimiliano Casaletti (Sorbonne University, France)
1571175544 09:00	Indigenous Manufacturing of 30 GHz Slotted Metal Antennas for Advancing Make in India Initiative Subhasis Hazra, Nikhil Kumar and Utpal Dey (IIT Roorkee, India)
1571183985 09:15	Design of a Single-Layer Corporate-Feed Waveguide 64×64-Slot Array Antenna for the 150GHz Band Jiro Hirokawa, Atsushi Saito and Takashi Tomura (Institute of Science, Tokyo, Japan)
1571184662 09:30	Design & Development of Non Resonant Slotted Waveguide Array Antenna Mohankumar K, Meera Murali, Iqbal A Khan and Beenamole K S (DRDO, India)
1571184972 09:45	Circularly Polarized SIW Leaky-Wave Antenna with Wideband Continuous Beam Scanning for Ka-Band Applications Inapurapu Suryarajitha, Nitin Kumar and Vikas Singh, Rajib Kumar Panigrahi and M. Kartikeyan (IIT Roorkee, India)
1571185026 10:00	SIW Broadband Beam Scanning Antenna Utilizing Multiple Regression-Based Machine Learning Models Soumyadeep Ghosh and Sukomal Dey (IIT Palakkad, India)
1571184938 10:15	A SIW Backed Self-Triplexing Antenna with Micro-Pockets for Frequency Control in s-Band and C-Band Vaishali Perumal and Sounik Kiran Kumar Dash (SRM Institute of Science and Technology, India)

Session Title:	Antenna Propagation Studies and Experiments
Session Chair(s):	Chung-Tse Michael Wu (Rutgers University, USA) & Anthony Ghiotto (University of Bordeaux, France)
1571164934 08:30	Input Characteristics of Monopole with Cross-Sectional Radius Varying Along Its Length Oleksandra Skvortsova, Mikhail Nesterenko, Oleksandr Mykolayovich Dumin (V.N. Karazin Kharkiv National University & School of Radio Physics, Ukraine)
1571172044 08:45	Modeling and Optimization of Planar C-Sandwich Radome for Broadband Applications Rudra Narayan Barik, Aditya Aniket Vaidya, Niraj Naik and Hrishikesh Sonalika (BITS Pilani, India)
1571172912 09:00	Electromagnetic Modeling and Analysis of Radome Wall with Char Residue Using Inhomogeneous Planar Layers Rudra Narayan Barik and Hrishikesh Sonalika (BITS Pilani, India)
1571173829 09:15	Development of Water-Cooled Half Helix Antenna for Ion Cyclotron Resonance Heating (ICRH) in Plasma Thruster Experiments

	Nitesh Kataria, Rana Pratap Yadav, Prabal Kumar Chattopadhyay and Renu Bahl (Homi Bhabha National Institute , India)
1571173921 09:30	Electrically Small Passive Huygens Antenna with Enhanced Directivity and Reduced Back Radiation Vydehi Nitta, Ravikanth Thanikonda and Stefano Maci (University of Siena, Italy)
1571188046 09:45	Space Wave Characteristics for a Lossy Two Layer Anisotropic Cylindrical Rod Antenna Mahesh Singh (Rashtrakavi Ramdhari Singh Dinkar College of Engineering, Begusarai, India), Bratin Ghosh (IIT Kharagpur, India), Dhruvajyoti Bhattacharya (IIIT Bhagalpur, India)
1571178691 10:00	S-Parameters and CMA-Aided Modal Investigation in Microstrip Patch Antennas: Analysis, Analogies and Visualizations Nitish Kumar (Aeronautical Development Agency, India), Kamla Prasan Ray (DIAT, India), Prasobh Martin (Aeronautical Development Agency, India)
1571173312 10:15	Information Theoretic Analysis of a Dual-Band MIMO Cellphone Antenna with ANSYS HFSS SBR+ Volodymyr Shyianov, Bamelak Tadele, Vladimir Okhmatovski and Amine Mezghani (University of Manitoba, Canada)

Session Code: Thu-TO-S1.9

08:30-10:30

Hall: Natika

Session Title:	High Performance RADAR System Design
Session Chair(s):	Mohammad Hossein Zarifi (University of British Columbia's School of Engineering, Canada) & Shruti Sinha (ISRO, India)

1571172026 08:30	Beam Forming Networks and Calibration Circuits for High Performance Active RF Front-Ends in C-Ku Band ARP Mallika (Gov & Defence Electronics Research Laboratory, India); Thokala Latha (DLRL, India); Srinivas D (Shri, India); Sravani Matham, C. Vasant Kumar, G. Syamala Rao and Y. Hemalatha (DRDO, India)
1571184166 08:45	Design and Analysis of Novel RF MEMS Switch for Smart Sensors and IoT(Internet of Things) Applications Anusha Yellapu, Koushik Guha and Kavicharan Mummaneni (NIT Silchar, India), Jacopo Iannacci (Fondazione Bruno Kessler, Italy)
1571188324 09:00	A Pragmatic Approach to Modular Design of Frequency Generator Electronics for Radar Applications Shruti Sinha, Srishti Srivastava, Nilesh Dineshbhai Makwana, Venkat Reddy, Mukesh Patel and Ch.V.N. Rao (ISRO, India)
1571188446 09:15	Dual Channel P-Band Homodyne Receiver for Airborne Synthetic Aperture Radar Srishti Srivastava, Shruti Sinha, Venkat Reddy, Mukesh Patel and Ch.V.N. Rao (ISRO, India)
1571188426 09:30	X Band Receiver for Spaceborne FMCW Radar Altimeter for Gaganyaan Gourav Agrawal, Piyush Sinha, Mukesh Patel and Ch.V.N. Rao (ISRO, India)
1571178838 09:45	Data Processing Framework for GNSS Reflectometry Payload in EOS-08 Sunita Khokhar, Himanshu Sharma and Diksha Gupta, Mahendra P Bhadoria, Prantik Chakraborty, Pankaj K Nath, Ch.V.N. Rao and Ananya Ray (ISRO, India)
1571184511 10:00	A Modular, Scalable and High Performance Design for Multi-Channel Wideband Transceivers Anirudh Kanfade, Vikas Kumar and Venkatamuni T (BEL, India)
1571184578 10:15	MSSAP: Active Passive Subsurface Sounder for Martian Subsurface Exploration Prantik Chakraborty, Yogendra Sahu, Anish Kumar Mishra, Pankaj K Nath, Ch.V.N. Rao and Nilesh M. Desai (ISRO, India)

TEA BREAK (10:30-11:00)

Session Code: Thu-TO-S2.1

11:00-13:00

Hall: Vembanad-1

Session Title:	RF Systems for Space and Defense-I
Session Chair(s):	Jan Budroweit (German Aerospace Centre (DLR), Germany) & Dirk I.L. de Villiers (Stellenbosch University (SU), South Africa)

Invited: 11:00	Development of a Defence and Dual-use RDT&E Ecosystem at the University of Alberta: Focus on Antenna and Microwave Engineering Ashwin K Iyer (University of Alberta, Canada)
1571184597 11:30	Transmission-Zero Creation in D-Band Single-Ridge Waveguide Bandpass Filters Dongxu Wang and Kai-Da Xu (Xi'an Jiaotong University, China), Roberto Gómez-García (University of Alcalá, Spain)
1571184766 11:45	Enhancing the Characteristics of L-Band Reflectionless Filter Using Ferrite Discs Sai Haranadh Akkapanthula and Srujana Kagita (IIT Tirupati, India)
1571188592 12:00	Flexible Low-Profile Wideband High-Gain Antenna for X Band Applications

	Pooja Sharma (Motilal Nehru NIT Allahabad, India), Ajay K Poddar (Synergy Microwave Corporation, USA), Himanshu Tripathi (Ajay Kumar Garg Engineering College, India), Vishal Upmanu (R D Engineering College, India), Manju Khari (Jawaharlal Nehru University, India)
1571183505 12:15	4x4 True Time-Delay Based Transmit Planar Array for EW Applications K Chakradhar, Sonal G. Naik, and Y. Hemalatha (DRDO, India)
1571184915 12:30	A Compact and Ultra-Wideband Sideband Separation Network for Space Borne Temperature Sounder Vivan Prakash, Harshita Tolani, Mukesh Patel, Ch.V.N. Rao (ISRO, India)
1571184871 12:45	Calibration Element Finalization of Planar Active Phased Array Based on Mutual Coupling Method Thokala Latha, ARP Mallika, Pranab Kumar Thander, Y. Hemalatha and Chakravarthy Mada (DRDO, India)

Session Code: Thu-TO-S2.2

11:00-13:00

Hall: Vembanad-2

Session Title:	Passive Microwave Components & Devices-II
Session Chair(s):	Ajay K. Poddar (Synergy Microwave, USA) & Santanu Kumar Behra (NIT Rourkela, India)

1571188609 11:00	A Study of Fluidic Reconfiguration in a Vivaldi Antenna Using Distilled Water Manas Tripathi, Radha Tomar, Gaurav Kumar Soni and Dinesh Yadav (Manipal University Jaipur, India), Prashant Ranjan (UEM, India), Rashmi A. Pandhare (IIIT, Nagpur, India)
1571174508 11:15	Narrow-Beam Butler Matrix for 28 GHz Wireless Application Mantar Singh Mandloi and Leeladhar Malviya (SGSITS, India)
1571184638 11:30	Ultra-Wideband Low-Loss Co-Planar Waveguide to Microstrip Line Transition for Millimeter-Wave Optically Transparent Antennas Aakash Bansal, Thomas Whittaker and William Whittow (Loughborough University, UK)
1571184931 11:45	CMOS-Compatible CPW Line Integrated with Electrostatically Actuated Lateral MEMS Switch for D-Band Communication Prince Gupta (CSIR-CSIO, India), Shakthi priya M, Harshit Kumar (IDDP, India), Mahesh Angira (NIT Hamirpur, India), Nalini Pareek and Dhairya S Arya (CSIR-CSIO, India)
1571163463 12:00	A Compact Modified Schiffman Phase Shifter for Wideband Differential Phase Difference Response Shrawan Kumar Patel and Mrinal Kanti Mandal (IIT, Kharagpur, India)
1571184628 12:15	A Wideband 3x3 Nolen Matrix Using Modified Coupler and Crossover for WLAN Applications Shrawan Kumar Patel and Mrinal Kanti Mandal (IIT, Kharagpur, India)
1571184941 12:30	A Novel Compact Multi-Post Re-Entrant Cavity for a Narrowband Quadrature Coupler Malika Somanath and K Vinoy (IISc, India)

Session Code: Thu-TO-S2.3

11:00-13:00

Hall: Vembanad-3

Session Title:	Static and Reconfigurable, Multifunctional FSS-I
Session Chair(s):	Kushmanda Saurav (IIT Jammu, India) & Arvind Kumar (VNIT, Nagpur)

1571174375 11:00	A Dual-Band Multifunctional and Tunable Frequency Selective Surface for Next Generation Wireless Application Shrey Anant Sandiman, Laxmikant Dewangan, Nipun Kumar Mishra (Guru Ghasidas Vishwavidyalaya Central University, India)
1571181998 11:15	Resistive Load-Based Wide-Band Frequency Selective Absorber Design for Ku-Band Sairam Sd (NIT Trichy, India), Sreenivasan Rathina Sabapathi (Qmax Test Equipments Pvt Ltd, India), D. Sriram Kumar (NIT, Trichy, India)
1571184825 11:30	Featherweight Carbon-Based Nanocomposite-Integrated FSS for a Flexible and Bendable Hybrid Microwave Absorber in Stealth Applications Jitendra Tahalyani (Lumenci Gurgaon, India), Prakrati Azad and Mohammad Jaleel Akhtar (IIT Kanpur, India)
1571184836 11:45	Optimized Honeycomb Based Microwave Absorber for Wideband mmWave Applications Using PSO and HS Theory Anjali Agrawal and Anil Kumar (IIITDM Jabalpur, India), Ravi Panwar (IIT BHU, India)
1571184936 12:00	Analysis of mm-Wave Series Fed Microstrip Patch Array with FSS Radome Debaprasad Barad (Astra Microwave Products Ltd, India), Debdeep Sarkar (IISc, India), Anil Kumar Singh (DRDO, India)
1571188064 12:15	Polarization Independent and Flexible ITO-Based FSS Microwave Absorber for RCS Reduction Awanish Kumar (University Grenoble Alpes, France), Jyotibhusan Padhi (SRM University, India), G Shrikanth Reddy (IIT Mandi, India)
1571188622 12:30	3D-Printed Monolithic Conformal FSS with Embedded Spacer for Ultrawideband Electromagnetic Shielding Applications Akhila Gouda, Munna Aziz, Priyank Mishra and Saptarshi Ghosh (IIT Indore, India)
1571188489	Oblique Incidence Analysis of FSS Using a Dual-Section Parallel Plate Waveguide

12:45	Patinavalasa Megh Sainadh and Saptarshi Ghosh (IIT Indore, India)
--------------	---

Session Code: Thu-TO-S2.4

11:00-13:00

Hall: Grand Salon-1

Session Title:	Passive Microwave Components & Devices-III
Session Chair(s):	Ambrish Ghadiya (ISRO, India) & Shubhankar Majumdar (NIT Meghalaya, India)

1571184971 11:00	An Adaptive Plasma Split-Ring Resonator: Multiphysics Simulation and Experimental Validation Sandeep Narasapura Ramesh (GonioTech, USA), Kushagra Singhal (University of Toledo, USA), Krushna Kanth Varikuntla (Queen's University Belfast, UK), Abbas Semnani (University of Toledo, USA)
1571184980 11:15	High-Performance Ka-Band Waveguide Monopulse Comparator with Fabrication Efficient Design Sandesh Bhimrao Mane, Sandip Sankar Roy, Chandrashekar P, K Sangeetha, Mir Sardar M and Koteswara Rao K (ISRO, India)
1571188450 11:30	W Band Highly Compact Broadband Variable Waveguide Attenuator with 60 dB Dynamic Range Sagnik Chakrabarti, Sukhendu Bhanja, Mousumi Sarkar, and Arijit Majumder (SAMEER, India)
1571188521 11:45	2-Way UHF Compact Broadband High-Power Combiner/Divider with Unbalanced 50Ω Isolation Resistors Jagadish Kumar Prajapati and Sandeepak S Kakatkar (SAMEER, India)
1571188564 12:00	A Compact Broadband Millimeter Wave Four-Way Power Divider Kusum Sharma (IEST Shibpur, India), Bijit Biswas and Rup Kumar Biswas (SAMEER Kolkata, India)
1571188658 12:15	Asymmetric-Response Bandpass Filter with Multiple Transmission Zeros Using Frequency-Variant Couplings Vinay Bharat Narayane (IIT Bombay, India)
1571184778 12:30	Design of Ultra-Broadband (100 MHz to 8 GHz) Bias-Tee for the Loadpull Measurement Ganesh Bargaje and Karun Rawat (IIT Roorkee, India)
1571184224 12:45	A Compact Dual-Band Reduced-Length Rat-Race Coupler for Sub-6 GHz Monopulse Applications Neethu M and Sukomal Dey (IIT Palakkad, India)

Session Code: Thu-TO-S2.5

11:00-13:00

Hall: Grand Salon-2

Session Title:	Electromagnetics in Biology and Medicine
Session Chair(s):	Shiban Koul (IIT Delhi, India) & P S Pandian (DRDO, India)

1571172233 11:00	Compact E-Slotted Circular Patch Antenna for Deep Tissue Microwave Radiometry Neenu Vymeliyath Sajeev and Kavitha Arunachalam (IIT Madras, India)
1571173185 11:15	A Wearable Miniaturized Antenna for Head and Neck Tissue Sensing Applications Somanth Akhil Polisetty and Kavitha Arunachalam (IIT Madras, India)
1571173411 11:30	Miniaturized Wideband Implantable Antenna for Deep Tissue Implant and Biotelemetry Application in the 2.45 GHz ISM Band Prasanna Venkatesh Sivakumar, Avinash Vinayagamoorthy, Archana Mohan and Niraj Kumar (VIT, India)
1571173996 11:45	Metasurface for High-Sensitivity Radar Sensing Mohammad Omid Bagheri and Omar Ramahi, George Shaker (University of Waterloo, Canada)
1571176135 12:00	A 915 MHz 2x2 Microstrip Antenna Array for in Vitro Hyperthermia Investigations Hemanth Kumar Dontiboina, Somanth Akhil Polisetty and Keerthana Sankar (IIT Madras, India), Gopal Gopisetty (Cancer Institute (W.I.A.), India), Kavitha Arunachalam (IIT Madras, India)
1571185028 12:15	Triple Band Antenna Integrated with an Impedance Matching Layer for Implantable Medical Devices over the ISM-Band Sanjana Banerjee, Akshit and Sukomal Dey (IIT Palakkad, India)
1571188133 12:30	AMC Metasurface Backed Dual Band High Gain Flexible Antenna with Low SAR for Body Area Network Application Pramit Bhattacharjee, Abhijay Dhar, Anubrata Majumdar, Priyanka Usha and Niraj Kumar (VIT, India)
1571188610 12:45	EM Lens-Integrated Metamaterial Hybrid Fractal Antenna for Targeted Non-Invasive Skin Cancer Therapy Komalpreet Kaur (Chandigarh Group of Colleges, India), Amanpreet Kaur (Thapar Institute of Engineering and Technology, India)

Session Code: Thu-TO-S2.6

11:00-13:00

Hall: Atelier-1

Session Title:	Reconfigurable Intelligent Surface-I
Session Chair(s):	Yahia M M Antar (RMC, Canada) & Debabani Chowdhury (SeraTech, USA)

1571185003 11:00	PF-RIS: A Dual-Functional Photo Frame-Based Reconfigurable Intelligent Surface for Indoor Wireless Optimization Amit Kumar Karna, Anand Mohandas, and Dilip Krishnaswamy (C-DOT, India)
-----------------------------------	---

1571173671 11:15	28 GHz Varactor-Based Reconfigurable Intelligent Surface: Wideband Design and Evaluation of Continuous vs. Quantized Phase Control Spandan Manna and Dirk Heberling (RWTH Aachen University, Germany)
1571174000 11:30	IRS-Enabled Joint Sensing and Communication for 6G Sanjeev Sharma and Kishor Prabhakar Sarawadekar (IIT BHU, India), Dharmendra Dixit (Motilal Nehru NIT Allahabad, Prayagraj Uttar Pradesh, India), Kuntal Deka (IIT Guwahati, India)
1571182615 11:45	Design of Dual Band 1-Bit Single Layer Reconfigurable Reflective Metasurface for Integrated Sensing and Communication Application Aman Raj, Mahesh P Abegaonkar and Ananjan Basu (IIT Delhi, India)
1571184719 12:00	Impact of Reconfigurable Intelligent Surface Failure on Network Security - Towards Identifying Potential Vulnerabilities in Future Telecom Networks Aakash Bansal (Loughborough University, UK)
1571184781 12:15	Performance Analysis of RIS-Assisted SIMO System with Generalized Selection Combining Jaswanth Kumar M (IIT Madras, India), Annette James and Ananth A (IIIT Kottayam, India)
1571184944 12:30	Reconfigurable Intelligent Surface with RS-SAC Framework for Secure Wireless Communications Shivam Bansal and Ashwani Sharma (IIT Ropar, India)

Session Code: Thu-TO-S2.7

11:00-13:00

Hall: Atelier-2

Session Title:	FSS and Polarization Converting MTM Absorbers
Session Chair(s):	Sudipta Maity (NIT Rourkela, India) & Ravi Kumar Gangwar (IIT ISM Dhanbad, India)

1571181174 11:00	A Thermally Switchable and Polarization Independent Metasurface for Controlled THz Transmission Ajeet Singh Verma and Somak Bhattacharyya (IIT BHU, India)
1571183910 11:15	Design of Elliptical Hexagonal Loop Polarizer for C/X Band Applications Emmadisetty Seshadri Sai Mohan, Ghanta Mahesh and Boya Umamaheshwar (VIT, India), Saranya Madheswaran (Sri Shanmugha College of Engineering and Technology, India), Rajeshkumar Venkatesan (VIT, India)
1571184761 11:30	Compact Wide-Beamwidth Polarization Converter Metasurface Integrated with 3D-Printed Horn Antenna for mm-Wave Applications Akhilesh Kumar, Amit Kumar Singh and Rahul Mondal (IIT Patna, India)
1571184878 11:45	A Wideband and Angularly Stable Polarization Converter Integrated with Antenna for Low RCS Applications Sahil Gautam, Riya Malia, Padmini Singh and Archana Rajput (IIT Jammu, India)
1571184967 12:00	Wideband Metamaterial Absorber for C-Band Biomedical Applications Ashwin Tom Reji (SRM Institute of Science and Technology, India), Ranjith Kumar R and Parthasarathy Ramanujam (NIT Trichy, India), Anisha Biswal, R Thrisha and Shabeeb Ahamed KP (SRM Institute of Science and Technology, India)
1571187949 12:15	A Dual-Band Metasurface Array with Widely Separated Frequencies for Beam-Scanning Rashi Khanna (IIST, India), Mahesh P Abegaonkar (IIT Delhi, India), Chinmoy Saha (IIST, India)
1571188381 12:30	Reflective/ Transmissive FSS for Ku/K/Ka Band Satellite Communication Safana Amala Yazhini A, Pritha Gayathri K and Shanmuganantham T (Pondicherry University, India), Sindhanaiselvi D (PTU, India)
1571188499 12:45	Miniaturized Single-Layered Multi-Band Linear-Circular and Linear-Cross Reflective Polarization Converter for X to Ka-Band Applications Mohammad Abdul Shukoor, Reddy Chaitanya, and Karun Rawat (IIT Roorkee, India), and Sukomal Dey (IIT Palakkad, India)

Session Code: Thu-TO-S2.8

11:00-13:00

Hall: Atelier-3

Session Title:	Microstrip Patch Antennas for WPT and 6G Applications
Session Chair(s):	Rod Waterhouse (Octane Wireless, USA) & Dalma Novak (Octane Wireless, USA)

1571187988 11:00	Three-Way Pattern Diversity UWB Antenna Shilpa Kharche (Terna Engineering College, India), G Shrikanth Reddy (IIT Mandi, India)
1571188285 11:15	A Thin, Miniaturized, and Conformal Flexible Antenna for Wi-Fi 7 & Wi-Fi 6E Applications Sanjay Prakash Pathak, Navneet Gupta and P R Deepa (BITS-Pilani, India)
1571179095 11:30	Generation of OAM Beam Using a Uniform Circular Array of Aperture Coupled Patches Utsav Giri, Satyajit Chakrabarti, Madhurima Ghosh, Subhanita Saha, Vivek Kumar Singh, and P. Rao (SAMEER, India)
1571188580 11:45	Rectangular Microstrip Antenna on a Conical Surface for ISM Band Applications Sneha Pandit, Mirza Wazed Ahmed Begg, and Sudipta Maity (NIT Rourkela, India)
1571188682 12:00	Sub-6 GHz CP Antenna with Novel T-Ground for V2X and WLAN

	Jayshri S Kulkarni (Wentworth Institute of Technology, USA), Mohammad Ameen (NUS, Singapore), Neeta Kulkarni (SEVERI's College of Engineering, India)
1571181727 12:15	A Dual-Band Shared Radiator Based in-Band Full-Duplex Antenna for Future 6G Applications Amrit Prasad Behera, Sandip Ghosal, and Jogesh Chandra Dash (NIT Rourkela, India)
1571184561 12:30	Dual-Polarized Hexa Port Simultaneous Wireless Information and Power Transfer Antenna Suraj Kumar Gupta, Sundeep Kumar and Ashwani Sharma (IIT Ropar, India)
1571184970 12:45	Design of Dual-Band Orthogonal MIMO Antenna with Integrated Spiral Stub for C/X Band Circular Polarization Kukkadapu Lakshman, Jani Pasha Shaik, Thanmai Gadagamma and Bhavani Vantakala (Vardhaman College of Engineering, India)

Session Code: Thu-TO-S2.9

11:00-13:00

Hall: Natika

Session Title:	Active Microwave Devices
Session Chair(s):	P Radhakrishna (DRDO, India) & Madhumita Chakravarti (DRDO, India)

1571188583 11:00	Design and Implementation of a Schottky Diode-Based Wideband RF Detector Santanu Deb, Ankit Yadav and Naba Kumar Peyada, Mrinal Kanti Mandal (IIT, Kharagpur, India)
1571173431 11:15	Design of High-Power Ku-Band 4x4 ONET for Next Generation Payloads Kartik M Mehta (ISRO, India), Sanket Patel (Ahmedabad University, India), Vineet K Dad and Tushar V. Gajjar (ISRO, India)
1571184195 11:30	Schottky-Diode Based Terahertz Technology and Applications Oleg Cojocari (ACST GmbH, Germany)
1571188522 11:45	On-Wafer Characterization of 2.5mW Si-Ge GPS LNA with OTA-Assisted Current Limiter Kuppireddy Vasudeva Reddy, Mudit Gupta and Sergiton David (GlobalFoundries, India)
1571188478 12:00	Design and Development of Miniaturized Low Noise, Wide Dynamic Range Receiver RF Front-End for Radar Altimeter Nidhi Singh, Harshita Tolani, Vikash Kumar, Mukesh Patel, Ch.V.N. Rao and Nilesh M. Desai (ISRO, India)
1571184413 12:15	Wideband Amplifier Design Using Peak-Search Based Load-Pull Measurements Kushan Chakraborty, Sion P and L S Sudhakara Sarma (BEL, India)
1571172626 12:30	On Chip Electron Gun Design Using Silicon Tip Field Emitter Array Ranjan Kumar Barik, Vikram Rawat, Subhrajit Manna, and Ayan Kumar Bandyopadhyay (CSIR-CEERI, India), Matthias Hausladen, Ali Asgharzade and Rupert Schreiner (OTH Regensburg, Germany)

LUNCH BREAK (13:00-14:00)

Session Code: Thu-TO-S3.1

14:00-16:00

Hall: Vembanad-1

Session Title:	Passive Microwave Components and Devices-IV
Session Chair(s):	Anirban Sarkar (IIT Bombay, India) & Debapratim Ghosh (IIT Bhubaneswar, India)

1571172987 14:00	Peano-Meander Curve Based Microwave Array Sensor for Nondestructive Testing of CFRP Composites Vimal Kumar Chaudhary (University of Glasgow, UK), Muhammad Zubair (University of Leicester, UK), Jalil ur Rehman Kazim, Muhammad Ali Imran and Qammer Abbasi (University of Glasgow, UK)
1571173420 14:15	Optimized Predictive Modeling of Liquid Permittivity Using a Novel Microwave Sensor with Enhanced Sensitivity Imran Basha Syed and Narasimha Rao Banavathu (NIT Andhra Pradesh, India), Yuvaraj S (IIITDM, Kancheepuram, India)
1571187492 14:30	A GaN-Based Dual-Channel Front-End for Polarization-Agile Wideband Arrays with Enhanced Isolation Ashish Jindal (DRDO, India), Sangam Bhalke and Sandeep K Chaturvedi (GAETEC, India), Meena Mishra (DRDO, India)
1571173110 14:45	Design and Optimization of a Dual-Band RF Rectifier for Energy Harvesting at 915 MHz and 2.45 GHz Rajesh Khanna, Geetanjali Singla, Aarti Bansal, Ishan Jain, and Kanika (Thapar Institute of Engineering & Technology, India)
1571174361 15:00	Monopulse Pattern Synthesis with SIW Antenna Array Using Pulse Width Time Modulation for mm-Wave Applications Kathu Sudevan, Gopika R, Chinmoy Saha (IIST, India)

1571179183 15:15	Design and Simulation of 500 MHz Microwave-Induced Argon Plasma in Waveguide-Fed Cylindrical Cavities Pratik Ghosh, Shishir Purohit and Manoj Kumar Gupta (Institute for Plasma Research, India)
1571164921 15:30	A Multi-Bit Chipless RFID Tag with Dual-Sided Resonator Configuration for Wearable Applications Chitturi Suneel Kumar and Situ Rani Patre (NIT Rourkela, India)
1571172773 15:45	RF-MEMS as a Key Enabling Technology of 6G and Future Networks mMIMO Beamforming Architectures Girolamo Tagliapietra (Fondazione Bruno Kessler, Italy), Massimo Donelli and Mohammedhusen Manekyia (University of Trento, Italy), Koushik Guha (NIT Silchar, India), Mahesh Angira (BITS PILANI, India), Deepak Bansal (CSIR-CEERI, India), Jacopo Iannacci (Fondazione Bruno Kessler, Italy)

Session Code: Thu-TO-S3.3

14:00-16:00

Hall: Vembanad-3

Session Title:	Computational Electromagnetics-II
Session Chair(s):	Francesco Andriuli (Politecnico di Torino, Italy) & A.R Harish (IIT Kanpur, India)

1571172958 14:00	An Adaptive Frequency Sweep Algorithm for Broadband EM Simulation Incorporating Random Matrix Transformation in the Loewner Framework Shilpa T N Shilpa and Rakesh Sinha (NIT, Rourkela, India)
1571179873 14:15	Accelerated Computation of Dominant Eigenmodes Sandip Ghosal (NIT Rourkela, India), Lopamudra Mazumder (IIT Kharagpur, India)
1571184567 14:30	2D-FDTD Leapfrog Method for Permittivity Extraction of Biomedical Waste Using Transmission/Reflection Method Bharti Singhal and Vikram Kumar (University of Delhi, India)
1571173254 14:45	Tree Fractal Antenna Optimization Using Machine Learning for L&S Band Applications Prasannajeet Mohanty (NIT Rourkela, India), Subhasish Pandav (IIT Roorkee, India), Santanu Kumar Behera (NIT Rourkela, India)
1571173498 15:00	Solving Antenna Cavity Models via Differentiable Physics-Embedded PDE Solver Aggraj Gupta, Anant Goyal and Uday Khankhoje (IIT Madras, India)
1571184984 15:15	Characteristic Mode Analysis of UWB Cavity Resonator Antenna Krushna Kanth Varikuntla (Queens's University Belfast, UK), Kannadassan Dhanaraj (VIT, India), Sumithra Panneerselvam (IIT Madras, India)
1571187454 15:30	Compensation of Beam Pointing Errors in Digital Beamforming Based Focal Array Fed Reflector Antenna Systems Suvrajit Ghosh; Akula Ramu, Atrish Mukherjee, Sravan Kumar Sagi and Milind B Mahajan (ISRO, India)

Session Code: Thu-TO-S3.4

14:00-16:00

Hall: Grand Salon-1

Session Title:	Emerging Microwave Sensing and mm-Wave Receiver Innovations
Session Chair(s):	Changzhi Li (Texas Tech University, USA) & S. Yuvaraj (NIT Andhra Pradesh, India)

1571184223 14:00	Simulation of Window for Vircator Shivabhagya M S, D Senthil Kumar, S K Datta and Srinivas N (DRDO, India), Sisir Kumar Nayak (IIT Guwahati, India)
1571188595 14:15	Frequency Reconfigurable AMC Based Antenna Sensor for Dispersive Material Testing Abhishek Kumar and Mohammad Jaleel Akhtar (IIT Kanpur, India)
1571182232 14:30	A Dual-Band Low-Noise Amplifier for 20 GHz 6G Communication and 77 GHz Radar Sensing Sateesh, Kourav, Pritesh Kumar Yadav, Manish Goswami and Prasanna Kumar Misra (IIIT Allahabad, India)
1571175129 14:45	Pseudo AC Coupled Broadband Extended Detector Log Video Amplifier for Modern Radar & EW Application Raghvendra Kumar Rai (BEL, India)
1571173400 15:00	A Self-Biased, Inductorless, Broadband CMOS LNA with Integrated Noise Cancellation for Radar and Wireless Applications Akankhya Biswas and Sumit Kumar, Soham Lakhote, Gaurab Banerjee, (IISc, India)
1571188485 15:15	Dual Stage Switch Based Linearization for Energy-Efficient Wide Area Base Stations Girish Chandra Tripathi; Anindya Saha, Ratnesh Kumar Gaur, Ramesh S (Tejas Networks, India)
1571184215 15:30	Low-Loss, Flat-Coupling Waveguide Coupler Based on Rectangular Aperture for Sounding Application Anamiya Bhattacharya, Harshita Tolani, Mahendra Pratap Singh Bhadoria, Prantik Chakraborty, Mukesh Patel, Ch.V.N. Rao (ISRO, India)

Session Code: Tu-Int-S3.7

14:00-16:00

Hall: Atelier-1

B.Tech, M.Tech and PHD Initiative: Evaluation

B.Tech, M.Tech and PHD Initiative: Evaluation**HIGH TEA BREAK (16:00-16:30)****THURSDAY-Dec 18, 16:30-17:15****VALEDICTORY SESSION****Journey of MAPCON: Growth, Evolution and Future Directions****Feedback, Comments & Conclusion****Handover to MAPCON 2026**

THANK YOU ALL !!!

We have reached a new milestone !!!

1100+

**Submissions
(Total)**

150+

**Submissions
(Outside India)**

4000+

**Authors
(Total)**

500+

**Authors
(Outside India)**

Participating Countries (40+)



60K+ VISITORS ON THE WEBSITE !

Pre-MAPCON Moments





We have reached a new milestone and all time record !

1100+

**Submissions
(Total)**

150+

**Submissions
(Outside India)**

4000+

**Authors
(Total)**

500+

**Authors
(Outside India)**

Participating Countries (40+)

Signature Sponsors

Organizing Institute & Academic
Partner: IIST Thiruvananthapuram



Technical Sponsor:
IEEE EMC Society



Supported by:
DRDO, DDR&D India



Supported by:
DRDO, DoS India



Supported by:
SAMEER, MeitY India



Keysight Technologies



Astra Microwave Products Ltd.



Organised by: IEEE MTT-S & AP-S Kerala Chapters,
Thiruvananthapuram, Kerala 695001