

PROGRAM AT A GLANCE (MAPCON – 2023)

Date	Hall No.	08:30 to 10:30	10:30 to 11:00 Tea Break	Hall No.	11:00 to 13:00	13:00 to 14:00 Lunch Break	Hall No.	14:00 to 16:00	16:00 to 16:30 Tea Break	Hall No.	16:30 to 18:30	18:30 to 19:30	1930 Onwards	
11.12.2023	H1	S6	Tea Break	H1	PhD Initiative Program	Lunch Break	H1	Special Session-SS1	Tea Break	H1	Keynote Speaker Talks 1-Dr. Nuno Borges Carvalho 2-Prof. Omar M. Ramahi 3-Dr. Stefano Maci 4-Shri Sumitesh Sarkar 5-Dr. Yahia M.M Antar		Dinner	
	H2	S3A		H2	S3B + S25		H2	S4A		H2				
	H3	S1A		H3	S1B + S2		H3	S9		H3				
	H4	S5A		H4	S5B		H4	S5C + S10		H4				
	H5	S8A		H5	S8B		H5	S19A		H5				
	H6	-		H6	-		H6	-		H6				
	H7	-		H7	S7		H7	-		H7				
	Poster Gallery	Poster Session P1		Poster Gallery	-		Poster Gallery	-		Poster Gallery				
12.12.2023	H1	S16A	Inauguration ●General Chair Welcome ●TPC Program Overview ●Address by Director SAC ●Address by Chairman, In-Space ●Address by Dr. A S Kiran Kumar ●Signature Sponsor talk	H1	S16B	Lunch Break	H1	Special Session-SS2	Tea Break	H1				
	H2	S4B		H2	S4C		H2	S4D		H2				
	H3	S11A		H3	S11B		H3	S11C		H3				
	H4	S12A		H4	S12B		H4	S29		H4				
	H5	S19B		H5	S19C		H5	S14A		H5				
	H6	-		H6	-		H6	-		H6				
	H7	-		H7	-		H7	-		H7				
	Poster Gallery	Poster Session P2		Poster Gallery	Poster Session P2		Poster Gallery	-		Poster Gallery				
	Imperia Auditorium		10:00 to 12:00 Inauguration + Chief Guest Address + Plenary Speakers			12:00 to 16:30 SIGHT Program at Imperia Auditorium				16:30 to 19:00 Industry Panel Session Sponsor presentation		Cultural Program + Gala Dinner		
	13.12.2023	H1	Special Session-SS3	Tea Break	H1	-	Lunch Break	H1	Special Session-SS4	Tea Break	H1	Special Session-SS5		
H2		S27A	H2		Keynote Speaker Talks 1- Dr. Amalendu Patnaik 2- Dr. Ramesh K Gupta 3-Prof. Shiban K. Koul 4-Dr. Theodore Reck 5 Prof . Kaushik Sengupta	H2		S27B	H2		S24			
H3		S11D	H3			H3		S15A	H3		S15B			
H4		S13A	H4			H4		S13B	H4		S13C+S17			
H5		S14B	H5		-	H5		S20	H5		S28			
H6			H6		-	H6		-	H6		-			
H7		Student Design Contest	H7		-	H7		Chapter Chair Meeting	H7		-			
Board Room 2		Executive Committee Meeting	Board Room 2		-	Board Room 2			Board Room 2					
Poster Gallery	Poster Session P3	Poster Gallery	-	Poster Gallery	Poster Session P4	Poster Gallery	Poster Session P5							
			Imperia Auditorium	Start-up Initiative Session			Imperia Auditorium	YP Session, WIE Session, Joint Session	18:30 to 19:10 Gold sponsor Presentation	Award Function + Banquet Dinner				
14.12.2023	H1	Special Session-SS6	Tea Break	H1	Ph.D. Initiative Program	Lunch Break	H1	Valedictory Function & Closing Ceremony	Tea Break	H1				
	H2	S30		H2	S22+ S27C		H2							H2
	H3	S15C		H3	S15D		H3							H3
	H4	S21		H4	S26		H4							H4
	H5	S18A		H5	S18B		H5							H5
	H6	-		H6	-		H6							H6
	H7	S23		H7	-		H7							H7
	Poster Gallery	Poster Session P6		Poster Gallery	-		Poster Gallery							Poster Gallery

Session Code	Session Title	Session Chair
S1A	Phased Array Antennas-1	Ramesh Gupta
S1B	Phased Array Antennas-2	Sanjeev Kulshreshta
S2	Reflectarray Antennas	Sanjeev Kulshreshta
S3A	Frequency Selective Surfaces & Radomes-1	Satyajit Chakraborty
S3B	Frequency Selective Surfaces & Radomes-2	A. R. Harish
S4A	RADAR & Remote Sensing-1	Ashutosh Kedar
S4B	RADAR & Remote Sensing-2	Yogesh Verma
S4C	RADAR & Remote Sensing-3	Yogesh Verma
S4D	RADAR & Remote Sensing-4	Jolly Dhar
S5A	SATCOM Antennas and Payloads-1	VK Singh , Chandrakanta Kumar
S5B	SATCOM Antennas and Payloads-2	Senthil Kumar
S5C	SATCOM Antennas and Payloads-3	S B Chakraborty
S6	Aircraft, UAV & Missile Antennas	Devendra Sharma
S7	Ultra Wide Band and Multiband antennas	Alok Singhal
S8A	Metamaterials & Metasurfaces-1	Debdeep Sarkar
S8B	Metamaterials & Metasurfaces-2	Vaibhav Kumar Srivastava
S9	Reconfigurable Antennas and Intelligent Reflecting Surfaces	M M Sharma
S10	Computational Electromagnetics	S B Chakraborty
S11A	MIMO and 5G Antennas-1	Amalendu Patnaik
S11B	MIMO and 5G Antennas-2	Kanhaiya Sharma
S11C	MIMO and 5G Antennas-3	Debatosh Guha
S11D	MIMO and 5G Antennas-4	Animesh Biswas
S12A	Millimetre Wave Technologies-1	Imran Mehdi, Goutam Chattopadhyay
S12B	Millimetre Wave Technologies-2	Imran Mehdi, Goutam Chattopadhyay
S13A	Amplifiers and High Power Microwave Devices-1	Shilpi Soni
S13B	Amplifiers and High Power Microwave Devices-2	Karun Rawat
S13C	Amplifiers and High Power Microwave Devices-3	K K Sood
S14A	Passive Components & RF Circuits-1	Shiban Koul
S14B	Passive Components & RF Circuits-2	K J Vinoy
S15A	Active Components, RFIC & MMIC devices-1	Sandeep Chaturvedi
S15B	Active Components, RFIC & MMIC devices-2	Santanu Sinha
S15C	Active Components, RFIC & MMIC devices-3	Meenakshi Rawat & Dr. Piyush Sinha
S15D	Active Components, RFIC & MMIC devices-4	Manoj Meshram
S16A	Substrate Integrated Waveguide (SIW) Technologies-1	Saptarshi Ghosh
S16B	Substrate Integrated Waveguide (SIW) Technologies-2	Ranajit Dey
S17	RF Sensors & Non-Destructive Testing methods	K K Sood
S18A	Fabrication, Packaging and 3D printing-1	Sagi Sravan Kumar
S18B	Fabrication, Packaging and 3D printing-2	Ajay Poddar
S19A	Medical, Biomedical and Industrial Applications of Microwaves-1	Mahesh Abegaonkar
S19B	Medical, Biomedical and Industrial Applications of Microwaves-2	Anirban Sarkar
S19C	Medical, Biomedical and Industrial Applications of Microwaves-3	Anirban Sarkar
S20	Quantum Devices, Systems & Applications	Naresh Chand
S21	RF Energy Harvesting & Wireless Power Transfer	Sukomal Dey
S22	Artificial Intelligence & Machine Learning	Ganga Prasad Pandey

Session Code	Session Title	Session Chair
S23	Antenna & Microwave Measurements	Puneet Mishra
S24	EMI & EMC	Chandrakanta Kumar
S25	Automotive Technologies	A.R. Harish
S26	Plasmonics	Deepak Ghodgaonkar
S27A	Microstrip Antennas-1	Mahesh Abegaonkar
S27B	Microstrip Antennas-2	Ravi Kumar Gangwar
S27C	Microstrip Antennas-3	Ganga Prasad Pandey
S28	Advanced Passive Antennas	KP Ray
S29	THz Sensing & Imaging	Priyansha Kaurav
S30	Emerging Technologies for 6G Communication	Chinmoy Saha
P1	Poster Session 1	Manjiri Pande & Jigar Pandya
P2	Poster Session 2	YP Kosta & Raghvendra Chaudhary
P3	Poster Session 3	Shobha Sundar Ram & Mridula Gupta
P4	Poster Session 4	Zubair Akhter & Ranajit Dey
P5	Poster Session 5	Arijit Majumder & Devendra Sharma
P6	Poster Session 6	Anant Naik & Ramesh Chandra Gupta
SS1	Special Session on High Power Microwave Devices	Braj Shukla
SS2	Special Session on Technology Trends: Shaping Future Communications	Vinod Kumar & Brijesh Kumar Soni
SS3	Special Session on Advanced Technologies for Reconfigurable Antennas	Sagi Sravan Kumar
SS4	Special Session on The Next-Generation Microwave Sensors/Radar and Technologies	CVN Rao
SS5	Special Session on Quantum Device, Systems and Applications	Dinesh Kumar Singh
SS6	Special Session on Microwave Applications: Emerging Technologies & Potential for Earth Observations and Space Science	Rashmi Sharma
	Student Design Contest	VK Singh
	Women in Engineering	Shobha Sundar Ram
	Young Profession	Somak Bhattacharya
	SIGHT	Chinmoy Saha & Shri Puneet Mishra

Keynote Speaker Talks

Day	S. No	Speaker	Duration	Topic Title
11 th December 16:30 to 18:30	1.	Dr. Nuno Borges Carvalho	25 min	Energy Constraints in Wireless Technologies
	2.	Prof. Omar M. Ramahi	25 min	Biomedical Imaging and Impressioning Using Low-Frequency Electromagnetic Energy
	3.	Dr. Stefano Maci	25 min	RIS and Metasurfaces antennas of the third generation
	4.	Shri Sumitesh Sarkar	25 min	Advances in Satellite Communication
	5.	Dr. Yahia M.M Antar	25 min	Antennas for Wireless Communications and Other Applications
13 th December 11:00 to 13:05	1.	Dr. Amalendu Patnaik	25 min	Orbital Angular Momentum (OAM) Antennas for Future Wireless Communications
	2.	Dr. Ramesh Gupta	25 min	Next Generation 5G/ 6G MM Wave Broadband Networks - a Technology Perspective
	3.	Prof. Shibani K. Koul	25 min	Medical Applications of Electromagnetic Waves
	4.	Dr. Theodore Reck	25 min	Power Combined InP Amplifiers Based Terahertz Varactor Sources
	5.	Prof. Kaushik Sengupta	25 min	Silicon+X+Deep-learning: Co-design for Next-generation Intelligent RF-to-THz Systems in 6G, SatCom and Defense

SS1- Special Session on High Power Microwave Devices

S. No.	Topics	Speaker	Session
1	High Power Microwave Devices	Dr. Braj Kishore Shukla (Session Chair) Institute of Plasma Research (IPR)	SS1
2	Indian Initiatives in the R&D of Microwave Vacuum Electronic Devices and Power Modules	Dr. S K Datta Director MTRDC, DRDO	SS1
3	Conventional Microwave tube for strategic importance – The Scenario	Dr. Sanjay Kumar Ghosh CEERI-CSIR	SS1
4	High Power Microwave Devices	Dr. Manjiri Pande BARC	SS1
5	High Power Aspects in Space borne payload subsystems	Smt. Shilpi Soni Scientist, SAC ISRO	SS1

SS2- Special Session on Technology Trends: Shaping Future Communications

S. No.	Speaker	Session
1	Dr. Vinod Kumar Director PD, IN-SPACE	SS2
2	H Rayappa Director Satcom PO, ISRO HQ	SS2
3	Rahut Vats Director OneWeb & Chief Regulatory Officer Bharti Airtel	SS2
4	Prafulla Kumar Vice President Reliance Jio	SS2
5	Dharmendra Singh Vice President - New Business, Hughes Communications India	SS2

SS3- Special Session on Advanced Technologies for Reconfigurable Antennas

Paper ID(Short)	Paper Title	Authors	Session
-	-	Shri Sravan Sagi & Dr Deepak Ghodgaonkar (Session Chairs)	
-	Overview of Reconfigurable Antenna Technologies for Space Applications	Dr. Pratik Mevada, SAC/ISRO	SS3
276	Pattern Reconfigurability Using Plasma for Beam Steering Application at S-Band	Manisha Jha (HOMI BHABHA NATIONAL INSTITUTE, India); Nisha Panghal (Institute for Plasma Research, India); Rajesh Kumar (Homi Bhabha National Institute, India); Surya Pathak (Institute for Plasma Research, India)	SS3

320	Time-Modulated Metasurface for Spoofing Doppler Radar	Yugesh Chandrakapure (Indian Institute of Science Bangalore, India); Anand Kumar, Easha Easha, Debdeep Sarkar and Gaurab Banerjee (Indian Institute of Science, India)	SS3
491	A Reconfigurable Frequency Selective Surface Switching Between Absorption, Transmission, and Reflection, Along With Frequency Tunability	Patinavalasa Megh Sainadh and Saptarshi Ghosh (Indian Institute of Technology Indore, India)	SS3
638	Design and Surface Impedance Characterization of Orthogonally Discrete 2 Bit Coded Impedance Modulated Surface for Holographic Antenna Applications	Subhadrita Ghosh and Swarnadipto Ghosh (Indian Institute of Space Science and Technology, Thiruvananthapuram, India); Mandar Chakrabarti (University of Engineering & Management, India); Chinmoy Saha (Indian Institute of Space Science and Technology, India & Royal Military College of Canada, Canada); Jawad Y Siddiqui (University of Calcutta, India & Royal Military College of Canada, Canada)	SS3

SS4- Special Session on the Next-Generation Microwave Sensors/Radar and Technologies

S. No.	Topics	Speaker	Session
1	The Next-Generation Microwave Sensors and Technologies	Dr. C. V. N. Rao (Session Chair) Deputy Director, SAC ISRO	SS4
2	Airborne radars, India's progress	Dr. D. Seshagiri DRDO	SS4
3	GaAs Technologies for Microwave Sensors	Anant naik GAETEC	SS4
4	Ultra-Wideband Radars for Small Unmanned Aircraft Systems for Fine-Resolution Remote Sensing of Water Resources	Prof. Shivprasad Gogineni University of Alabama USA	SS4
5	Evolving trends in the development Tracking Antennae & Radar Processing	Mr N V Bhaskar Senior Deputy General Manager Radar Systems, L&T	SS4

SS5- Special Session on Quantum Devices, Systems and Applications

S. No.	Topics	Speaker	Session
		Shri D K Singh (Session Chair) Deputy Director, SAC ISRO	
1	Quantum Radar: State of the art and future prospects	Dr. David Luong Carleton University, Canada	SS5
2	Satellite Based Quantum Key Generation and Distribution: Perspective and Challenges	Dr M. Senthil Kumar Group Director, SAC ISRO	SS5
3	Photonics for National Defense	Dr. Naresh Chand Founder, Prakash Bharti USA	SS5
4	Microwave Photonics : where RF meets Optics	Dr. Deepa Venkitesh IIT, Madras	SS5
5	Photonic Integrated Circuits an enabler for quantum computing and communication: the need and the status	Prof. Shankar Kumar Selvaraja IISc	SS5
6	Van-der-waals Hetero Junctions for On-Chip Quantum Hardware	Prof. Kaushik Majumdar IISc	SS5
7	Multilayer Constellation using High Speed Optical Communication Payloads in Space	James Solomon Director, Citoto	

SS6- Special Session on Microwave Applications: Emerging Technologies and Potential for Earth Observations and Space Science

S. No.	Topics	Speaker	Session
1	Microwave Applications for Earth Observations and Planetary Sciences	Dr. Rashmi Sharma (Session Chair) Deputy Director, SAC ISRO	SS6
2	Applications of Microwave Humidity Sounder (MHS) observations for weather prediction	Dr. John P. George National Centre for Medium Range Weather Forecasting (NCMRWF), Ministry of Earth Sciences (MoES), Noida	SS6
3	High Resolution SAR Applications for Land Resources Monitoring	Dr. Prashant Srivastava IIT-BHU	SS6
4	Cloud-based Large Scale Processing and Analytical Platform for Water Resource Management Using Microwave Satellite Data	Shri Saptarsi Mondal, Project Manager, Vassar Labs	SS6
5	Agriculture Applications using Earth Observations	Dr. Anand Prakash Arya Founder & CEO, AgBoost Tech Consultancy, India	SS6
6	GNSS-Reflectometry As a Signal of Opportunities: A Potential Emerging Microwave Technology for Earth Observation Applications	Shri Dharmendra Kumar Pandey Scientist, SAC ISRO	SS6