

MONDAY - APRIL 14, 2025

TRACK 1

TRACK 2

7:00 AM	Breakfast / Exhibitors (Room: Seagrapes)		
8:00 AM	<b>M1A: Advancements in Power Amplifiers</b> (Room: Sea Oats) Session chairs: TBD	<b>M2A: TBD Workshop</b> (Room: Seahorse and Starfish) Session chairs: TBD	
8:00 AM	(Invited) <b>Power-Efficient Single-Input Star Outphasing Amplifier with Large Output Backoff</b> Patrick Robin; Dominic Mikrut	<b>Workshop Session #1</b> <b>Advanced Packaging and Heterogeneous Integration Technologies: Motivation, Trends, and Opportunities</b> Muhannad Bakir Georgia Tech University	
8:20 AM	<b>A Variable-Power Supply-Modulated Class-E GaN Power Amplifier With 81 % Efficiency Over 10 dB Back-Off for VHF Pulsed Radar Applications</b> Dimitri Kapranov; Tommaso Cappello		
8:40 AM	<b>Area-efficient UWB CMOS Power Amplifier with Hybrid Trifilar</b> Sheng-Lyang Jang; Wei-Che Lin; Wen-Cheng Lai; Miin-Horng Juang	<b>Break</b>	
9:00 AM	<b>A Study on GaN MMIC Power Amplifier Stability-Performance Design Tradeoffs at X Band</b> Benjamin E Rautio; Taylor Barton	<b>Workshop Session #2</b> <b>Overview of Phased Array Antenna Systems and Practical Design Considerations</b> Daniel Ramirez L3 Harris	
9:20 AM	<b>W-band Power Amplifier with Reconfigurable Output Matching Network</b> Stefan Stroessner; Laila F Marzall; Zoya Popovic		
9:40 AM	<b>Break - Coffee with Exhibitors</b> (Room: Dunes 1 & 2)		
10:00 AM	<b>Room: Sea Oats &amp; Sawgrass</b>		
10:10 AM	<b>Welcome Message</b>		
10:10 AM	<b>Keynote Address</b>		
10:50 AM	<b>Plenary Address - Monday</b>		
11:30 AM	<b>Exhibitor Spotlight</b> (Room: Sea Oats & Sawgrass)		
11:50 AM	<b>Lunch</b> (Room: Horizons & Deck)		
1:10 PM	<b>M1B: Internet of Everything (IoE) &amp; Machine Learning</b> (Room: Sea Oats) Session chairs: TBD	<b>M2B: Innovations in Passive Devices &amp; Antenna Components</b> (Room: Sawgrass) Session chairs: TBD	<b>TRACK 3</b> <b>M3B: Emerging RF Technologies</b> (Room: Seahorse & Starfish) Session chairs: TBD
1:10 PM	Invited Paper <b>Growing Into an Adaptive and Reconfigurable Paradigm for Spectrum Sharing</b> Charles Baylis; Douglas Sicker; Austin Egbert; Andrew Clegg; Tom Brooks; Casey Latham; Robert J. Marks	Invited Paper <b>WiFi6E / UWB Diplexer Design for Connectivity Coexistence</b> Alfred R Gimenez	Invited Paper <b>Utilizing Information Assets in RF and Microwave Engineering Workflows</b> Matthew Ozalas; Anil Pandey; Tom DeMuer
1:30 PM	<b>High Efficient MIMO-OFDM Imaging Using Shared Transmission Bandwidth</b> Mehmet Yazgan; Huseyin Arslan; Stavros Vakalis	Invited Paper <b>Modeling the response of a wireless harmonic sensor in a multi-layer environment for landslide monitoring</b> Daniel Kwabena Yirenya-Tawiah; Rye Fought; Elsie Anthonio; Thomas Weller; Jeff Frolik	<b>Low-Power Wireless Multi-Channel Surface Electromyography Sensor for Facial Muscle Sensing</b> Samira Balbach; Christian Dorn; Lena Schindler-Gmelch; Matthias Berking; Amelie Hegelauer
1:50 PM	Invited Paper <b>Characterization of Ferromagnetic Resonance Identification (FMR-ID) Tag in Semi-wireless Configuration</b> Md Toaha Anas; Allison Harpel; Bethanie J.H. Stadler; Rhonda Franklin	Invited Paper <b>Reflectors: Integrated Metasurface for Simultaneous mmWave Absorption and Beam Steering</b> Nohgyeom Ha; Gyoungdeuk Kim; Hoyong Kim; Sangkil Kim	<b>Digital Self-Interference Cancellation in Wideband STAR Radio Using an Auxiliary Receiver</b> Kefayet Ullah; Satheesh Bojja Venkatakrishnan; John L. Volakis
2:10 PM	<b>Generative AI for Wireless Interference Modeling: Text-Controlled Waveform Synthesis Using Stable Diffusion</b> Matthew Tylek; Keith Truongcao; Md Shakir Hossain; Kapil Dandekar	<b>Coupled Resonator Band-Reject Filters with all Positive Inter-Resonator</b> Wael Fathelbab	<b>State-of-the-Art Load-Pull Simulation Methods for Next-Generation Power Amplifier Design</b> Nabil Khalid; Arnaud Soury
2:30 PM	<b>Break / Exhibitor Showcase- Coffee with Exhibitors (Lobby )</b>		
3:00 PM	<b>M1C: Systems, Components, and Signal Processing for Communications</b> (Room: Sea Oats) Session chairs: TBD	<b>M2C: Filters, State-of-the-art of Electromagnetics Interactions &amp; Interference (Room: Sawgrass)</b> Session chairs: TBD	<b>M3B: Recent Advances in Antenna Technologies</b> (Room: Seahorse & Starfish) Session chairs: TBD
3:00 PM	<b>A Systematic Design Method Based on Vector Analysis for mmW DCML Divider</b> Wangming Liu; Wenbo Guo; Chunqi Shi; JingHong Chen; Runxi Zhang	<b>A Novel Filtering Phase Shifter with a 180-degree Phase Shift Using Switchable Electric/Magnetic Coupling</b> Kristen Ling; Xun Gong	<b>A Circular Antenna Array for Rotationally Invariant and Bidirectional Transmission in the Near-Field</b> Markus Michael Thiel; Reinhard Stolle
3:20 PM	<b>Design of a Phase-Controlled High Power Class AB MMIC Amplifier for X-Band Applications</b> Abdullah Eroglu; MD Tamir	<b>Design of a Generalized Chebyshev Filter with a Sloped Passband</b> Jonathan M Knowles; Russell H Kenney; Jay W McDaniel; Hjalti Sigmarsson	<b>A Reconfigurable Polarization Patch Antenna Array with Beam Steering for CBRS MIMO Applications</b> Zahid Hasan; Xun Gong
3:40 PM	<b>S-Band Active Circulator with Reactive Load Tuning for Isolation Recovery</b> Laila F Marzall; Marcus Wolff; Sofia Mvokany; Zoya Popovic	<b>An Intermodulation Distortion Suppression Self-Injecting Real-Time RF Signal Processing Feedback Loop</b> Hao Yan; Hanxiang Zhang; Saeed Zolfaghary pour; Powei Liu; Fei Yan; Jonathan Casamayor; Mitch E Plaisir; Bayaner Arigong	<b>Low-Profile Meandering Spiral Antenna Using an Absorber-Loaded EBG Cavity</b> Adi Berneman; Aaron Hofmann; Brad R. Jackson
4:00 PM	<b>A New Approach to Modeling Single-Layer Capacitors</b> Dave Barry; Hetvi Patel; Larry Dunleavy; Paul Menendez; Chris Olson; Chris DeMartino	<b>A Compact 5.6GHz BAW Filter Design Using Meandered Path</b> Diba Dehmeshki; Ali Hosseini-Fahrari; Yazid Yusuf; Wolfgang Heeren; Alfred R Gimenez	<b>UWB UHF Dual-Polarized Dipole Antenna with Low-Profile Microstrip Balun</b> Shravan Kaundinya; John D Paden; Fernando Rodriguez-Morales; Aaron Paden
4:20 PM	<b>Poster Session</b> (Near Exhibitors)		
5:30 PM	<b>Networking Reception</b> (Pool Deck)		
6:30 PM	<b>Banquet</b> (Room: Sea Oats & Sawgrass)		
7:30 PM			

	TRACK 1	TRACK 2	TRACK 3
7:00 AM	<b>Breakfast</b> (Room: Seagrapes)		
8:00 AM	<b>T1A: Heterogeneous Integration &amp; Systems</b> (Room: Sea Oats) Session chairs: TBD	<b>T2A: Sub-THz and THz Systems and Measurements</b> (Room: Sawgrass) Session chairs: TBD	<b>T3A: Advancements in RF Applications for Space Technologies</b> (Room: Seahorse & Starfish) Session chair: TBD
8:00 AM	A 20-32 GHz Ka-Band MMIC LNA in GaN-on-SiC Designed for a Heterogeneous Integration Process  Alec Russell; Joel Johnson; Zoya Popovic	A 150-168 GHz Mixer and Quadrupler Unit in SiGe BiCMOS Technology for JCAS Applications based on DDS Signal Generation up to 5 GHz  Timur Isbilen; Sascha Breun; Nils Arneith; Albert-Marcel Schrotz; Kai Scheller; Norman Franchi; Robert Weigel	HierCharge: Low-Complexity Hierarchical Optimization for Scalable IoT Energy Solution  Yuan Xing; Jake See; John Dzissah; Abhishek Verma; Cheng Chih Liu
8:20 AM	A Novel Integrated Power Detection Circuit for Low Noise Amplifiers in Cellular Applications  Alexander Georg Spielberger; Kai Scheller; Andre Engelmann; Norman Franchi; Robert Weigel; Christof Pfannenmüller	Sub-THz MIMO Hybrid Beamforming: D-Band Dual-Channel Analog Beamforming Front-Ends Prototyping  Ramez Askar; Laurenz John; Jaehoon Chung; Vitor C de Almeida; Arnulf Leuther; Axel Tessmann; Mehmet Ahad Yurtoglu; Wochan Kim; Chulkyu Mun; Jeongin Kim; Yonghak Suh; Jongpil Lee; Michael Peter; Thomas Haustein	Enabling Digital Predistortion in High Fractional Bandwidth Cellular Multiband Scenarios with Direct-Sampling and Real-valued Signals  Thales Stedile-Ribeiro; Björn Jelonnek; Tilman Felgentreff; Georg Fischer
8:40 AM	Wideband Single-Input Load-Modulated Double Balanced Amplifier with Intrinsic Load Insensitivity  Jiachen Guo; Pingzhu Gong; Kenle Chen	Invited Paper <b>Advances in On-Wafer Characterization of Sub-THz Active Devices and Circuits</b>  Jerome Cheron; Rob D Jones; Jeffrey Jargon; Benjamin F Jamroz; Ari Feldman	Exploiting Non-uniform Quantization for Enhanced ILC in Wideband Digital Pre-distortion  Jinfei Wang; Yi Ma; Fei Tong; Ziming He
9:00 AM	Delayed Crosstalk Digital Predistorter for MIMO Systems  Emad Embarak; Patrick Roblin; Hamza Salem; Jose I. Martinez-Lopez; Yuhan Zheng	OFDM-Based Joint Communication and Ranging with Improved Accuracy Under Signal Bandwidth Constraints by Ideal Sinc Interpolation: Cramer-Rao Lower Bound and 60 GHz Over-the-Air Validation  Guoyi Xu; Harish Krishnaswamy	VenSAR Reflectarray RF Modeling and Optimization for the EnVision Mission  Alessio Mancini; Richard Hodges; Sara Manafi; Jacqueline C. Chen
9:20 AM	Design and Characterization of a Compact and Broadband On-Chip Modified Three-Conductor Transmission Line Balun at G-Band  Yu Zhu; Tilo Meister; Frank Ellinger	A CMOS LNA with Improved Multi-path Noise-Canceling for K-Band Communications  Chenge Hu; Ziyao Wang; Chunqi Shi; Leilei Huang; JingHong Chen; Runxi Zhang	Study of specular and non-specular reflection of pyramidal absorber arrays  Sophie Lasquelles; Lana Damaj; Azar Maalouf; Alexis Chevalier; Vincent Laur
9:40 AM	<b>Break - Coffee with Exhibitors</b> (Room: Dunes 1 & 2)		
10:00 AM	(Room: Sea Oats & Sawgrass)  Plenary Address #2		Student Day Activities (Room: Seahorse & Starfish) Chair: TBD
10:40 AM	Henning and WAMICON 2024 Award Announcements		
11:00 AM	Plenary Address #3		
11:40 AM	<b>Break (Grab Boxed Lunch)</b>		
12:00 PM	Lunch		
12:45 PM	Break		
1:10 PM	<b>T1B: Additively Manufactured Components for RF/Wireless Systems</b> (Room: Sea Oats) Session chairs: TBD	<b>T2B: Advancements in Radar Technologies</b> (Room: Sawgrass) Session chairs: TBD	Student Day Activities (Room: Seahorse & Starfish) Chair: TBD
1:10 PM	Additive Manufactured Embedded Ground Plane Design for 3D Heterogeneous integration and packaging of RF Chips  Nicholas Sturim; Matt Hodek; Prem Chahal; John Albrecht; John Papapolymerou	An Optimizing Method for FMCW Chirp Linearity Based on Continuous Frequency Step Analysis  Sheng Sun; Chunqi Shi; Leilei Huang; JingHong Chen; Runxi Zhang	
1:30 PM	3D-Printed Reconfigurable Communication System Based on Tunable Liquid Crystals  Simon Pietschmann; Jing Shi; Felix Bachbauer; Holger Maune; Gerald Gold	Memory Arrays for FMCW Radar Signal Processing: A Feasibility Analysis  Mariea Sharaf Anzum; Arya Menon	
1:50 PM	Additively Manufactured Circular Polarized V-Band Phased Antenna Array  Jing Shi; Simon Pietschmann; Felix Bachbauer; Veeranjanyulu Akula; Holger Maune; Gerald Gold	Distributed Repeaters for Extending the Range of Passive Harmonic RF Tags  Trevor J Saunders; Stavros Vakalis	
2:10 PM	Graphene Based Ground Plane for Patch Antenna  Utkarsh Misra; Vishvajitsinh Kosamiya; Fineus Reilly; Liguang Li; Jing Wang	A Feature Pyramid Network Based Detection Approach for Multi-Scale Target Detection in Stationary Short-Range Radar  Philipp Reitz; Tobias Veihelmann; Christian Künzle; Norman Franchi; Robert Weigel; Maximilian Lübke	
2:30 PM	<b>Exhibitor Showcase</b> (Room: Dunes 1 & 2 & Lobby)		
3:00 PM	<b>Women in Microwaves and Young Professionals Event</b> (Room: Sea Oats & Sawgrass)		
4:30 PM	<b>WIM / YP Reception</b> (Pooldeck)		
6:00 PM			