

| CERF Posters and Presenters | | Session | | Poster Title |
|-----------------------------|-----------|------------|---|---|
| First | Last | Time | Title | |
| 1 | Matt | Barr | 9:30 AM Radar, Navigation and Sensing | Passive Radar Subarray Antenna Design |
| 2 | Jamie | Huang | 9:30 AM Radar, Navigation and Sensing | Array Based Passive Radar Target Localization |
| 3 | Ahmed | Balakhder | 9:30 AM Radar, Navigation and Sensing | Intelligent Approach to Improve Standard CFAR Detection in Non-Gaussian Sea Clutter |
| 4 | Adam | Mitchell | 9:30 AM Radar, Navigation and Sensing | Coordinate Descent Optimization for Cognitive Radar Adaptation |
| 5 | Saif | Alsaif | 9:30 AM Radar, Navigation and Sensing | Target Following And Approach Using Echoic Flow |
| 6 | Luyao | Xu | 9:30 AM Radar, Navigation and Sensing | RFC capable Radar System |
| 7 | Christa | McKelvey | 9:30 AM Radar, Navigation and Sensing | The Cubesat Radiometer Radio-Frequency Interference Technology Validation (CubeRRT) Mission |
| 8 | Mark | Andrews | 9:30 AM Radar, Navigation and Sensing | The Ultra-Wideband Software Defined Microwave Radiometer for Ice Sheet Thermometry |
| 9 | Matt | Buchanan | 9:30 AM Radar, Navigation and Sensing | Design of a Ground-Based Beacon Signal for Calibration of Spaceborne GNSS Remote Sensing Instruments |
| 10 | Jeonghwan | Park | 9:30 AM Radar, Navigation and Sensing | Studies of TDS-1 GNSS-R Ocean Altimetry Using a Full DDM Retrieval Approach |
| 11 | Andrew | Kintz | 9:30 AM Radar, Navigation and Sensing | Field Testing of the Direct Mapping Method for Geolocation of Multiple Ground-Based RF Emitters |
| 12 | Nicole | Tchorowski | 9:30 AM Radar, Navigation and Sensing | Situational Awareness Using GNSS Adaptive Antennas |
| 13 | Jiti | Gupta | 9:30 AM Radar, Navigation and Sensing | Blind Adaptive Beamforming in GNSS Receivers |
| 14 | Kai | Ren | 11:15 AM EM Algorithms and Measurements | Real-Time 3D Microwave Imaging System for Planar Media |
| 15 | Shah | Chowdhury | 11:15 AM EM Algorithms and Measurements | Velocity profiling of multiphase flows based on electrical capacitance volume tomography (ECVT) |
| 16 | Aruna | Ravi | 11:15 AM EM Algorithms and Measurements | Plasmonic Resonances for Spectroscopy Applications using 3D Finite-Difference Time-Domain and Mie-Bruggeman Models |
| 17 | Dong-Yeop | Na | 11:15 AM EM Algorithms and Measurements | Efficient electromagnetic particle-in-cell algorithm based on unstructured grids for micro-machined vacuum electron devices |
| 18 | Hongkun | Li | 11:15 AM EM Algorithms and Measurements | Distribution of Bistatic Rough Surface Scattered Fields Using SSA |
| 19 | Swagato | Mukherjee | 11:15 AM EM Algorithms and Measurements | Numerical Prediction of Tropospheric Scintillation |
| 20 | Zeeshan | Zeeshan | 11:15 AM EM Algorithms and Measurements | High-Resolution Fast Imaging Methods for Adaptive Capacitance Volume Tomography |
| 21 | Luyao | Xu | 11:15 AM EM Algorithms and Measurements | UWB Lower Atmospheric Propagation (LATPROP) Measurement System |
| 22 | Ron | Reano | 2:30 PM RF Circuits and Optics | Creating high-speed modulators from domain reversal in thin film ferroelectrics |

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|----|--|----------------|-------------|------------------------|---|
| 23 | Ushe | Chipengo | 2:30 PM | RF Circuits and Optics | Novel Concepts for Slow Wave Structures used in High Power Backward Wave Oscillators |
| 24 | Samantha | McDonnell | 2:30 PM | RF Circuits and Optics | Statistical Modeling and Parametric Yield Prediction for CMOS Current-Steering DACs |
| 25 | Luke | Duncan | 2:30 PM | RF Circuits and Optics | Time-Interleaved, Reconfigurable $\Delta\Sigma$ DAC for Direct Digital-to-RF Synthesis |
| 26 | Adam | Kimura | 2:30 PM | RF Circuits and Optics | Metrics of Error Payload and Error Implementation Cost for Developing Test Case Scenarios in Trusted Microelectronics |
| 27 | Greg | Creech | 2:30 PM | RF Circuits and Optics | Trusted Microelectronics |
| 28 | Daron | DiSabato | 2:30 PM | RF Circuits and Optics | A 5.6Gbps to 0.9Gbps Rate Conversion ASIC for High-Speed Data Communication |
| 29 | <i>Ersin</i> | <i>Yetisir</i> | 2:30 PM | RF Circuits and Optics | Uncooled Micro-bolometers for Low-cost Passive mmW Imaging |
| 30 | Muhammed Rashedul | Zuboraj | 2:30 PM | RF Circuits and Optics | A Novel Slow Wave Structure for mm-Wave Traveling Wave Tubes |
| 31 | Ayman | Fayed | 2:30 PM | RF Circuits and Optics | Power Management Research Lab Research Overview |
| 32 | Varittha | Sanphuang | 2:30 PM | RF Circuits and Optics | THz Biosensor employing Phase-Change Materials |
| 33 | Varittha | Sanphuang | 2:30 PM | RF Circuits and Optics | Broadband FarIR Polymer-supported Filter |
| 34 | Shane | Smith | 2:30 PM | RF Circuits and Optics | Acquisition of a Room Sized RF Shielded Enclosure to Enable Low Noise Measurements at ESL |
| 35 | Jingni | Zhong | 4:15 PM | Antenna Design | Conformal Load-Bearing Spiral Antenna on Conductive Textile Threads |
| 36 | Md. Asiful | Islam | 4:15 PM | Antenna Design | Real-Time Microwave Imaging Using Conformal Sensors |
| 37 | Cedric | Lee | 4:15 PM | Antenna Design | Miniaturized Fully-Passive Brain Implant for Wireless Neuropotential Acquisition |
| 38 | Brock | DeLong | 4:15 PM | Antenna Design | An Optimized Quarter Wavelength, Single-Shunt Diode Rectifier and its Application |
| 39 | Dimitrios | Papantonis | 4:15 PM | Antenna Design | Tightly-Coupled Array with Integrated Reconfigurable Balun for Tunable Band Rejection |
| 40 | Navtej | Saini | 4:15 PM | Antenna Design | Self-Powered Multifunctional RFID Sensor Tags for Tires |
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| | Poster # 5 was presented Greame Smith | | | | |
| | Poster # 29 was presented by Nima Ghalichechian | | | | |