EUROPEAN MICROWAVE ASSOCIATION

Past EuMC YEP Winners

2025, Utrecht, Bartosz Tegowski: Fast Determination of the Monostatic Radar Channel in the Near-Field of Electrically Large Targets
B. Tegowski, D. Langer, N.C. Albrecht, A. Koelpin

2025, Utrecht, Arjith Chandra Prabhu: A J-Band Low-Noise Amplifier with 100+ GHz 3-dB Bandwidth in a 130-nm SiGe BiCMOS Technology
A. Chandra Prabhu, J. Grzyb, M. Andree, Z. Cao, H. Rücker, U.R. Pfeiffer

2024, Paris, L. Hahn: Quasi-Optical Directional Coupler Based on 3D-Printed Dielectric Image Lines for sub-THz Applications
L. Hahn, L Bürk, Y. Zhu, C. Carlowitz, G. Gold, F. Ellinger, M. Vossiek

2024, Paris, V. Kienle: Low-loss Frequency Selective Surface for Sub-Millimeter Wave Radiometer Applications
V. Kienle, M. Ettorre, O. de Sagazan, R. Sauleau, C. Waldschmidt, T. Chaloun

2023, Berlin, M. Lazaro: Backscatter Tag Based on an Actively-Controlled Reflection Amplifier
M. Lazaro, A. Lazaro, R. Villarino, D. Girbau

2023, Berlin, A. Karimi: Sub-THz Silicon-Micromachined Reconfigurable Beam-Steering Frontend
A. Karimi, U. Shah, J. Oberhammer

2022 Milan, H. Zhou: Wideband Sequential Circulator Load modulated Amplifier with Back-Off Efficiency enhancement
H. Zhou, J.-R. Perez-Cisneros, C. Fager

2022, Milan, E. Williams: Meta-Gaps for Mechanically Reconfigurable Phased Arrays
E. Williams, A. Hajimiri

2021, London, O.Koustsos: Wideband High-Gain Transmitarray Antenna for Point-to-Point Communications at 300GHz
O. Koustsos, F. Foglia-Manzillo, A. Clemente, R. Sauleau

2020 Utrecht, A. Sieganschin: A compact Low-Noise Frontend for Rs/tx-Integrated SatCom Arrays
A. Sieganschin, T. Jaschke, A.F. Jacob

2020 Utrecht, J. Gabriel Buckmaster: An Electronically Steerable Millimeter-Wave Reflectarray for Wireless Power Delivery'
J. Gabriel Buckmaster, T.H. Lee

2019 Paris, A. Cayron: Wideband and Compact 3-D Quadrature Coupler for 5G Applications
A. Cayron, C. Viallon, A. Ghannam, A. Magnani, T. Parra
2019 Paris, M.R. Duffy: Discrete Supply Modulation of a Three-Stage K-Band PA
M.R. Duffy, G. Lasser, Z. Popovic

2018 Madrid, A. Ashley: Requency Selective Ferrite Circulators with Quasi-Elliptic Transmission Response

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A. Ashley, L. Fighera Marzall, Z. Popovic, and S. Psychogiou

2018 Madrid, Y.F. Wu: Near-Field Beam Focusing and Steering Generator Based on 3D Curved Sustrate Integrated Waveguide
Y.F. Wu and Y.J. Cheng

2017 Nuremberg, S. Poltschak: High Precision Realtime RF-Measurement System for Imaging of Stroke
S.Poltschak, M. Freilinger, R. Feger, A. Stelzer, A. Hamidipour, T. Henriksson, M. Hopfer, R. Planas, and S. Semenov

2017 Nuremberg, A. Afshaniaghajari: Non-Reciprocal Mode-Converting Substrate Integrated Waveguide
A. Afshaniaghajari and K. Wu

2016 London, W. Fuscaldo: Efficient 2-D Leaky-Wave Antenna Configurations Based on Graphene Metasurfaces
W. Fuscaldo, P. Burghignoli, P. Baccarelli and A. Galli

2016 London, C. Vasanelli: Design and Experimental Characterization of a Surface with Low Radar Cross-Section
C. Vasanelli, F. Boegelsack and C. Waldschmidt

2015 Paris, C. Molero: Wideband Equivalent Circuit for Non-aligned 1-D Periodic Metal Strips Coupled Gratings
C. Molero, R. Rodriguez-Berral, F. Mesa, F. Medina

2015 Paris, S. Pavlidis: A 5.4WW-Band Gallium Nitride (GaN)Power Amplifier in an Encapsulated Organic Package
S. Pablidis, A. Cagri Ulusoy, J. Papapolymerou

2014 Rome, D. Markert: Phase-Modulated DSM-PWM Hybrids with Pulse Length Restriction for Switch-Mode Power Amplifiers
D. Markert, C. Haslach, H. Heimpel, A. Pascht, and G. Fischer

2014 Rome, N. Meyne: Quasi-Lumped Coplanar Transmission-Line Sensors for Broadband Liquid Characterization
N. Meyne, W. Müller-Wichards, H. K. Trieu, and A. Jacob

2013 Nuremberg, F. F. Tafuri: Efficiency Enhancement of an Envelope Tracking Power Amplifier Combining Supply Shaping and Dynamic Biasing
F.F. Tafuri, D. Sira, O.K. Jensen, T. Larsen

2013 Nuremberg, J.-C. Kao: A 25-to-45-GHz 45 degree Power Divider
J.-C. Kao, Y.-H. Hsiao, K.-S. Yeh, C.-C. Chiong, Y.-Hsuan Lin, Kun-You Lin, Huei Wang

2012 Amsterdam, M. Durán-Sindreu: Novel Fully-Planar Extended-Composite Right/Left Handed Transmission Line Based on Substrate Integrated Waveguide for Multi-Band Applications
M. Duran-Sindreu, J. Bonache, F. Martian, T. Itoh

2012 Amsterdam, O. Tade: Negative Impedance Converters for Broadband Antenna Matching
O.O. Tade, P. Gardner, P.S. Hall

2011 Manchester, S. Bildik: Reconfigurable Liquid Crystal Reflectarray with Extended Tunable Phase Range
S. Bildik, S. Dieter, C. Fritzsch, M. Frei, C. Fischer, W. Menzel, R. Jakoby

2011 Manchester, J. Antes: MMIC Based Wireless Data Transmission of a 12.5Gbit/s Signal Using a 220GHz Carrier

J. Antes, D. Lopez-Diaz, A. Tessmann, A. Leuther, H. Massler, T. Zwick, O. Ambacher, I. Kallfass

2010 Paris, A. Stark: In-situ Probes for Antenna Array Calibration
A. Stark, U. Johannsen, A. F. Jacob

2010 Paris, C. Quindroit: Experimental Setup for the Extraction of Power Amplifier Dynamic Volterra Model and Design of Digital Baseband Predistorter
C. Quindroit, E. Ngoya, G. Neveux, J.-M. Nebus

2009 Rome, A. Shahvarpour: Realization of an Effective Free-Space Perfect Electromagnetic Conductor (PEMC) Boundary by a Grounded Ferrite Slab Using Faraday Rotation
A. Shahvarpour, T. Kodera, A. Parsa, C. Caloz

2009 Rome, M. Oldoni: A Novel Approach to Lossy Filter Synthesis
M. Oldoni, G. Macchiarella, G. Gentili

2008 Amsterdam, A. Kilian: Investigation of the Hot Embossing Technology for Low-Cost Antennas Printed on Polymer Substrates
A. Kilian, J. Weinzierl, L.-P. Schmidt

2008 Amsterdam, S. Bastioli: A Novel Class of Compact Dual-Mode Rectangular Waveguide Filters Using Square Ridge Resonators

S. Bastioli, L. Marcaccioli, R. Sorrentino

2007 Munich, L. Huang: Tunable Antenna Design Procedure and Harmonics Suppression Methods of the Tunable DVB-H Antenna for Mobile Applications
L. Huang, P. Russer

2007 Munich, E. Sbarra: A Novel Rotman Lens in SIW Technology
E. Sbarra, L. Marcaccioli, R.V. Gatti, R. Sorrentino

2006 Manchester, C.-J. Lee: Compact Dual-Band Antenna Using an Anisotropic Metamaterial
C.-J. Lee, K.M.K.H. Leong, T. Itoh

2006 Manchester, C. Siegel: Simplified RF-MEMS Switches Using Implanted Conductors and Thermal Oxide
C. Siegel, V. Ziegler, B. Schönlinner et al.

2005 Paris, S. Mueller: Passive Tunable Liquid Crystal Finline Phase Shifter for Millimeterwaves
S. Mueller, C. Felber, P. Scheele et al.

2005 Paris, A. Ocera: A Novel Technique for Complex Permittivity Measurement Based on a Planar Four Port Device
A. Ocera, M. Dionigi, E. Fratticcioli et al.

2004 Amsterdam, B. Motlagh: High-Q fringing-field-enhanced capacitors (FFE) for deep submicron silicon-MMICs
B. Motlagh, S. Gevorgian, H. Zirath

2004 Amsterdam, A. Saib: Design of a unbiased microwave circulator using a magnetic nanowired substrate
A. Saib, M. Darques, L. Piraux et al

2003 Munich, A. Kryshtopin: Cost-minimized 24 GHz pulse oscillator for short-range automotive radar application
A. Kryshtopin, G. Sevskiy, K. Markov et al.

2003 Munich, B. Schölinner: Compact multibeam dual-frequency (24 and 77 GHz) imaging antenna for automotive radars
B. Schönlinner, J.P. Ebling, M. Pichler, G.M. Rebeiz