

# Past EuMC YEP Prize Winners



European  
Microwave  
Association

**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 Rx/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: Frequency Selective Ferrite Circulators with Quasi-Elliptic Transmission Response  
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 Substrate 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-Bernal, F. Mesa, F. Medina

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

S. Pavlidis, 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. Martí, 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. Schölinnner: Compact multibeam dual-frequency (24 and 77 GHz) imaging antenna for automotive radars

B. Schölinnner, J.P. Ebling, M. Pichler, G.M. Rebeiz