

Past EuMC Prize

Winners

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2016 London, S.K. Podilchak, S.F. Mahmoud, A.P. Freundorfer, and Y.M. Ma Antar:
New Planar Microwave Devices and Antennas by Practical Surface-Wave Launching

2015 Paris, H. Zargar, A. Banai, J.C. Pedro:
DIDO Behavioral Model Extraction Setup Using Uncorrelated Envelope Signals

2014 Rome, C. Jany, A. Siligaris, P. Ferrari, P. Vincent:
A Novel Programmable Harmonic Selection Technique Based on the Pseudo-Locking of an Oscillator by Periodically Repeated Oscillations Train

2013 Nuremberg, E. Topak, J.-Y. Choi, T. Merkle, S. Koch, S. Saito, C. Landesberger, R.Faul, K. Bock:
Broadband Interconnect Design for Silicon-Based System-in-Package Applications up to 170GHz

2012 Amsterdam, V. Carrubba, S. Maroldt, M. Musser, H. Walcher, M. Schlechtweg, R. Quay, O. Ambacher:
Dual-Band Class-ABJ AlGa_N/Ga_N High Power Amplifier

2011 Manchester, F.J. Schmuckle, R. Doerner, G.N. Phung, W. Heinrich, D. Williams, U. Arz:
Radiation, Multimode Propagation, and Substrate Modes in W-Band CPW Calibrations

2010 Paris, E. Öjefors, F. Pourchon, P.Chevalier, U. R. Pfeiffer:
A 160-GHz Low-Noise Downconverter in a SiGe HBT Technology

2009 Rome, A. Gaebler, F. Goelden, A. Manabe, M. Goebel, S. Meuller, R. Jakoby:
Investigation of High Performance Transmission Line Phase Shifters Based on Liquid Crystal

2008 Amsterdam, Y. Yashchyshyn, K. Derzakowski, J. Modelski:
Extending Functionalities of Waveguide Slot Antennas by Means of Reconfigurable Aperture

2007 Munich, L. A. Greda, A. Dreher:
Tx-Terminal Phased Array for Satellite Communication at Ka-band

2006 Manchester, T. Nagatsuma, H. Ito, K. Iwatsuki:
Generation of Low-phase Noise and Frequency-tunable Millimeter-terahertz-waves Using Optical Heterodyning Techniques with Uni-traveling Carrier Photodiodes

2005 Paris, H. Murata, K. Kaneda, A. Enokihara et al. :
38 GHz Signal Optical Fiber Transmission Using Guided-Wave Electrooptic Single-Sideband Modulators with Polarization Reversals

2004 Amsterdam, S. Masuda, H. Kira, and T. Hirose:
110-GHz high-gain flip-chip InP HEMT amplifier with resin encapsulation on an organic substrate

2003 Munich, I. Gresham, A. Jenkins:
A fast switching, high isolation, miniature absorptive SPST for 24 GHz

2002 Milan, W. Menzel, A. Al-Tikriti, R. Leberer:
A 76-GHz multiple-beam planar reflector antenna

2001 London, I. Rolfes, T. Musch, B. Schick:
A highly linear digital detector for noise parameter measurements at microwave frequencies

2000 Paris, H. Kamitsuna, Y. Matsuoka, S. Yamamhata, N. Shigekawa:
A 82-GHz-optical gain-cutoff- frequency InP/InGaAs double-hetero-structure phototransistor (DHPT) and its application to a 40-GHz-band OEMMIC

1999 Munich, T. Hiratsuka, T. Sonoda, S. Mikami, K. Sakamoto, and Y. Takimoto:
A Ka-band diplexer using planar TE mode dielectric resonators with plastic package

1998 Amsterdam, O. Wohlgemuth, B. Agarwal, R. Pullala, D. Mensa, Q. Lee, J. Guthrie, M.J.W. Rodwell, R. Reuter, J. Braunstein, M. Schlechtweg, T. Krens, and K. Köhler:
A NLTL-based integrated circuit for a 70-200 GHz VNA system

1997 Jeruzalem, Y. Sun, M. de Kok, J.L. Tauritz, and R.G.F. Baets:
2~3 GHz silicon MMIC balanced oscillators using on-chip active resonators

1997 Jeruzalem, A.B. Kozyrev, V.N. Osadchy, M.M. Gaidukov, A.S. Pavlov, V. Meerovich, S. Sokolovsky: Transmitter-receiver switch based on high-Tc superconducting film

1996 Prague, M. Vossiek, P. Heide, M. Nalezinski, V. Mágori:
Novel FMCW radar system concept with adaptive compensation of phase errors

1995 Bologna, F. Filicori, G. Vannini, A. Santarelli, D. Torcolacci, V.A. Monaco:
Accurate prediction of intermodulation distortion in GaAs MESFETs

1994 Cannes, L. Mullen, A. Vieira, P.R. Herczfeld, V.M. Contarino:
Experimental and theoretical analysis of a microwave-modulated lidar system

1994 Cannes, S.L. Delage, D. Floriot, H. Blanck, S. Cassette, E. Chartier, M.A. diForte-Poisson, C. Brylinski, Y. Perreal, D. Pons, P. Roux, P. Bourne, P. Chaumas :
Power GaInP/GaAs HBT MMICs

1993 Madrid, G. David, S. Redlich, W. Mertin, R.M. Bertenburg, S. Kołowski, F.J. Tegude, E. Kubalek, D. Jäger:
Two dimensional direct electro optic field mapping in a monolithic integrated GaAs amplifier

1992 Helsinki, M. Hallikainen, and M. Toikka:
Classification of sea ice types with radar

1991 Stuttgart, W. Konrath:
Fully integrated 18-20GHz phase-locked DRO signal source for digital radio systems using chip and wire technology

1990 Budapest, M. Weiss, Geok Ing Ng, and D. Pavlidis:
InP based monolithic integrated HEMT amplifiers and their material sensitivity

1989 London, R.C. Brown, P.J.B. Clarricoats, Z. Hai:
The performance of a prototype reconfigurable mesh reflector for spacecraft antenna applications

1988 Stockholm, G. Splitt:
Rectangular electromagnetically coupled microstrip antennas in multilayered structures

1987 Rome, G.P. Donzelli, C. Angione, M. Cipelletti, P. Mengoni, E. M. Bastida:
Very high performance GaAs microwave MESFET power devices

1986 Dublin, A. Daryoush, P. Herczfeld, A. Rosen, V. Contarino, Z. Turski, P. Wahi:
Optical beam control of millimeter wave phased array antennas for communications

1985 Paris, A.Bert, F. Farzaneh, P. Guillon, N. Mamodaly, J. Obregon:
A fundamental mode InP Gunn dielectric resonator oscillator at 94 GHz

1984 Liège, E Kuhn, G Philippou:
Fully computer-optimized design of circular corrugated horns

1984 Liège, E. Kuhn, B.K. Watson:

Rectangular corrugated horns - analysis, design and evaluation

1983 Nuremberg, J.C. Bolomey, M. Gautherie, J.L. Guerquin-Kern, A. Izadneghadar, L. Jofre, Y.C. Michel, G. Peronnet, C. Pichot, C. Szeles

A microwave diffraction tomography system for biomedical applications

1982 Helsinki, E. Kollberg, L. Olsson, S. Rudner:

A very low noise quasi-particle (SIS) mixer receiver for radio astronomical applications

1981 Amsterdam, J. Arnold, R. Butlin:

Extended frequency range GaAs MESFETs using 0.30 μm gate

1980 Warszawa, R. Knoechel, A. Schlegel:

Octave-band double balanced integrated fin-line mixers at mm-wavelengths

1979 Brighton, R.S. Pengelly:

A broad band frequency discriminator using a dual gate GaAs field effect transistor

1978 Paris, G.T. Wrixon:

A superheterodyne receiver from 350-400 GHz

1977 Copenhagen, T. Paukner, B. Schiek, W. Schilz:

A microwave spectrometer - suitable for gas analysis in industrial applications