

“Hot Chips and Cold Drinks” Industry Showcase

Chair: Nick Cheng, Skyworks Solutions

The Industry Showcase session, held concurrently with the plenary reception and the Interactive Forum, will highlight 12 selected papers submitted by authors from the industry. Authors of these papers will be present to discuss their innovative work, summarized in poster format, and some will also show a demonstration. The media will cover this event, making it an excellent opportunity to announce the latest RFIC developments and breakthroughs. A Best Industry Paper Award will be awarded to the author of one selected paper among these. This year’s Industry Showcase papers are:

Experimental Characterization of Packaged Switch Devices for RF and Millimeter-Wave Applications

¹CRISMAT, France, ²NXP Semiconductors, France

Thanh Vinh Dinh¹, Philippe Descamps¹, Daniel Pasquet¹, Dominique Lesénéchal¹, Sidina Wane²

RM01A-1 08:00

On the Characterization of Thermal Coupling Resistance in a Current Mirror

Skyworks Solutions, USA

Tianbing Chen, Bhuvaneshwaran Vijayakumar, Tzung-Yin Lee, Chun-Wen Paul Huang, Mike McPartlin

RM01A-4 09:00

A Direct-Conversion Transmitter for Small-Cell Cellular Base Stations with Integrated Digital Predistortion in 65nm CMOS

Analog Devices, USA

Chris Mayer, David J. McLaurin, Jason Fan, Steve Bal, Christopher Angell, Oliver E. Gysel, Martin McCormick, Manish J. Manglani, Richard P. Schubert, Brian Reggiannini, John Kornblum, Lu Wu, Lex Leonard, Shipra Bhal, Alex Kagan, Tony Montalvo

RM01C-1 08:00

A Direct-Conversion Receiver for Multi-Carrier 3G/4G Small-Cell Base Stations in 65nm CMOS

Analog Devices, USA

David J. McLaurin, Kevin G. Gard, Richard P. Schubert, Robert Glenn, David Alldred, Trevor C. Caldwell, Zhao Li, Steve Bal, Christopher Angell, Jianxun Fan, Manish J. Manglani, Brian Reggiannini, John Kornblum, Lu Wu, Chris Mayer, Oliver E. Gysel, Wei An, Shipra Bhal, Bruce E. Wilcox, Tony Montalvo

RM01C-3 08:40

Single Crystal AlGaIn Bulk Acoustic Wave Resonators on Silicon Substrates with High Electromechanical Coupling

Akoustis Technologies, USA

Jeffrey B. Shealy, Michael D. Hodge, Pinal Patel, Ramakrishna Vetury, Alexander Yu. Feldman, Shawn R. Gibb, Mark D. Boomgarden, Michael P. Lewis, James B. Shealy, James R. Shealy

RM02A-1 10:10

A 28GHz SiGe BiCMOS Phase Invariant VGA

IBM, USA

B. Sadhu, J.F. Bulzacchelli, Alberto Valdes-Garcia

RM02D-4 11:10

Sunday, 22 May 2016

19:00–21:00

Marriott Salons 9–15

A 28nm, 475mW, 0.4-to-1.7GHz Embedded Transceiver Front-End Enabling High-Speed Data Streaming Within Home Cable Networks

¹Broadcom, USA, ²Broadcom, Taiwan, ³imec, Belgium, ⁴Broadcom, The Netherlands, ⁵Apple, USA

S. Spiridon¹, D. Koh¹, J. Xiao¹, M. Brandolini¹, B. Shen¹, C.-M. Hsiao², H. Huang², D. Guermendi³, S. Bozzola⁴, H. Yan⁴, M. Introini⁴, L. Krishnan¹, K. Raviprakash⁵, Y. Shin¹, R. Gomez¹, J. Chang¹

RM03A-5 14:50

A 20dBm Configurable Linear CMOS RF Power Amplifier for Multi-Standard Transmitters

DSP Group, Israel

Eli Schwartz, Sergey Anderson, Alex Mostov, Ilya Sima, Udi Suissa, Ron Pongratz, Amit Ezer, Avi Cohen, Michael Gulko, Nadav Snir, Asaf Elazari, Avi Bauer

RTU1D-3 08:40

Single Die Broadband CMOS Power Amplifier and Tracker with 37% Overall Efficiency for TDD/FDD LTE Applications

Skyworks Solutions, USA

Florinel Balteanu

RTU1D-4 09:00

A 30-MHz-to-3-GHz CMOS Array Receiver with Frequency and Spatial Interference Filtering for Adaptive Antenna Systems

NEC, Japan

Naoki Oshima, Masaki Kitsunozuka, Kenta Tsukamoto, Kazuaki Kunihiro

RTU2A-1 10:10

A Wideband Single-PLL RF Receiver for Simultaneous Multi-Band and Multi-Channel Digital Car Radio Reception

¹NXP Semiconductors, The Netherlands, ²NXP Semiconductors, Germany

Jan van Sinderen¹, Lucien Breems¹, Hans Brekelmans¹, Frank Leong¹, Nenad Pavlovic¹, Robert Rутten¹, Jan Niehof¹, Raf Roovers¹, Bernard Burdiek², Jochen Rudolph², Ulrich Moehlmann², Peter Blinzer², Manfred Biehl², Niels Gabriel², Andreas Wichern², Gerd Schippmann², Frank Rethmeier², Janusz Klimczak², Joerg Wenzel², Ralf-Gero Pilaski²

RTU2A-2 10:30

A 60GHz Packaged Switched Beam 32nm CMOS TRX with Broad Spatial Coverage, 17.1dBm Peak EIRP, 6.1dB NF at <250mW

IBM, USA

B. Sadhu, Alberto Valdes-Garcia, J.-O. Plouchart, H. Ainspan, A.K. Gupta, M. Ferriss, M. Yeck, M. Sanduleanu, X. Gu, C. Baks, D. Liu, D. Friedman

RTU2C-1 10:10