

## 2013 Lewis Winner Award for Outstanding Paper

*"A 0.54pJ/b 20Gb/s Ground-Referenced Single-Ended Short-Haul Serial Link in 28nm CMOS for Advanced Packaging Applications"*

John W. Poulton<sup>1</sup>, William J. Dally<sup>2</sup>, Xi Chen<sup>2</sup>, John G. Eyles<sup>1</sup>, Thomas H. Greer III<sup>1</sup>, Stephen G. Tell<sup>1</sup>, C. Thomas Gray<sup>1</sup>

<sup>1</sup>Nvidia, Durham, NC

<sup>2</sup>Nvidia, Santa Clara, CA

## 2013 Lewis Winner Award for Outstanding Paper

*"A Fully Differential Charge-Balanced Accelerometer for Electronic Stability Control"*

Vladimir P Petkov<sup>1</sup>, Ganesh K Balachandran<sup>1</sup>, Jochen Beintner<sup>2</sup>

<sup>1</sup>Robert Bosch, Palo Alto, CA

<sup>2</sup>Robert Bosch, Reutlingen, Germany

## 2013 Distinguished-Technical-Paper Award

*"A Fully Integrated 8-Channel Closed-Loop Neural-Prosthetic SoC for Real-Time Epileptic Seizure Control"*

Wei-Ming Chen<sup>1</sup>, Herming Chiueh<sup>1</sup>, Tsan-Jieh Chen<sup>1</sup>, Chia-Lun Ho<sup>1</sup>, Chi Jeng<sup>1</sup>, Shun-Ting Chang<sup>1</sup>, Ming-Dou Ker<sup>1</sup>, Chun-Yu Lin<sup>1</sup>, Ya-Chun Huang<sup>1</sup>, Chia-Wei Chou<sup>1</sup>, Tsun-Yuan Fan<sup>1</sup>, Ming-Seng Cheng<sup>1</sup>, Sheng-Fu Liang<sup>2</sup>, Tzu-Chieh Chien<sup>2</sup>, Sih-Yen Wu<sup>2</sup>, Yu-Lin Wang<sup>2</sup>, Fu-Zen Shaw<sup>2</sup>, Yu-Hsing Huang<sup>2</sup>, Chia-Hsiang Yang<sup>1</sup>, Jin-Chern Chiou<sup>1</sup>, Chih-Wei Chang<sup>1</sup>, Lei-Chun Chou<sup>1</sup>, Chung-Yu Wu<sup>1</sup>

<sup>1</sup>National Chiao Tung University, Hsinchu, Taiwan

<sup>2</sup>National Cheng Kung University, Tainan, Taiwan

## 2013 Jan Van Vessel Award for Outstanding European Paper

*"A 20b Clockless DAC with Sub-ppm-Linearity 7.5nV/ $\sqrt{\text{Hz}}$ -Noise and 0.05ppm/ $^{\circ}\text{C}$ -Stability"*

Roddy C. McLachlan<sup>1</sup>, Alan Gillespie<sup>1</sup>, Michael C. W. Coln<sup>2</sup>, Douglas Chisholm<sup>1</sup>, Denise T. Lee<sup>1</sup>

<sup>1</sup>Analog Devices, Edinburgh, United Kingdom

<sup>2</sup>Analog Devices, Wilmington, MA

## **2013 Jack Raper Award for Outstanding Technology-Directions Paper**

*“Experimental Demonstration of a Fully Digital Capacitive Sensor Interface Built Entirely Using Carbon-Nanotube FETs”*

Max Shulaker<sup>1</sup>, Jelle Van Rethy<sup>2</sup>, Gage Hills<sup>1</sup>, Hong-Yu Chen<sup>1</sup>, Georges Gielen<sup>2</sup>, H.-S. Philip Wong<sup>1</sup>, Subhasish Mitra<sup>1</sup>

<sup>1</sup>Stanford University, Stanford, CA

<sup>2</sup>KU Leuven, Heverlee, Belgium

## **2013 Jack Kilby Award for Outstanding Student Paper**

*“A Digitally Modulated mm-Wave Cartesian Beamforming Transmitter with Quadrature Spatial Combining”*

Jiashu Chen<sup>1</sup>, Lu Ye<sup>1</sup>, Diane Titz<sup>2</sup>, Fred Ganesello<sup>3</sup>, Romain Pilard<sup>3</sup>, Andreia Cathelin<sup>3</sup>, Fabien Ferrero<sup>2</sup>, Cyril Luxey<sup>2</sup>, Ali M Niknejad<sup>1</sup>

<sup>1</sup>University of California, Berkeley, CA

<sup>2</sup>University of Nice, Nice, France

<sup>3</sup>STMicroelectronics, Crolles, France

## **2013 ISSCC Award for Outstanding Forum Presenter**

*“The BSIM6 MOSFET Compact Model and Its Use for Analog and RF Design”*

Christian Enz

CSEM and EPFL, Neuchâtel, Switzerland

## **2013 Evening Session Award**

*“You’re Hired! The Top 25 Interview Questions for Circuit Designers”*

Organizers/Moderators:

Michael P. Flynn, University of Michigan, Ann Arbor, MI  
John Khoury, Silicon Labs, Austin, TX

Panelists:

Ali Hajimiri, California Institute of Technology, Pasadena, CA  
Beomsup Kim, Qualcomm, Santa Clara, CA  
Marcel Pelgrom, Consultant, Helmond, The Netherlands  
Behzad Razavi, University of California, Los Angeles, CA  
Eric Swanson, Cirrus Logic, Austin, TX  
Sanroku Tsukamoto, Fujitsu Laboratories, Kawasaki, Japan

## 2013 Demonstration Session Certificate of Recognition

*"A Fully Integrated 8-Channel Closed-Loop Neural-Prosthetic SoC for Real-Time Epileptic Seizure Control"*

Wei-Ming Chen<sup>1</sup>, Herming Chiueh<sup>1</sup>, Tsan-Jieh Chen<sup>1</sup>, Chia-Lun Ho<sup>1</sup>, Chi Jeng<sup>1</sup>, Shun-Ting Chang<sup>1</sup>, Ming-Dou Ker<sup>1</sup>, Chun-Yu Lin<sup>1</sup>, Ya-Chun Huang<sup>1</sup>, Chia-Wei Chou<sup>1</sup>, Tsun-Yuan Fan<sup>1</sup>, Ming-Seng Cheng<sup>1</sup>, Sheng-Fu Liang<sup>2</sup>, Tzu-Chieh Chien<sup>2</sup>, Sih-Yen Wu<sup>2</sup>, Yu-Lin Wang<sup>2</sup>, Fu-Zen Shaw<sup>2</sup>, Yu-Hsing Huang<sup>2</sup>, Chia-Hsiang Yang<sup>1</sup>, Jin-Chern Chiou<sup>1</sup>, Chih-Wei Chang<sup>1</sup>, Lei-Chun Chou<sup>1</sup>, Chung-Yu Wu<sup>1</sup>

<sup>1</sup>National Chiao Tung University, Hsinchu, Taiwan

<sup>2</sup>National Cheng Kung University, Tainan, Taiwan

## 2013 Demonstration Session Certificate of Recognition

*"5.5GHz System z Microprocessor and Multichip Module"*

James Warnock<sup>1</sup>, Yuen H Chan<sup>2</sup>, Hubert Harrer<sup>3</sup>, David Rude<sup>2</sup>, Ruchir Puri<sup>4</sup>, Sean Carey<sup>2</sup>, Gerard Salem<sup>5</sup>, Guenter Mayer<sup>3</sup>, Yiu-Hing Chan<sup>2</sup>, Mark Mayo<sup>2</sup>, Adam Jatkowski<sup>2</sup>, Gerald Strevig<sup>6</sup>, Leon Sigal<sup>4</sup>, Ayan Datta<sup>7</sup>, Anne Gattiker<sup>8</sup>, Aditya Bansal<sup>4</sup>, Douglas Malone<sup>2</sup>, Thomas Strach<sup>3</sup>, Huajun Wen<sup>6</sup>, Pak-Kin Mak<sup>2</sup>, Chung-Lung