

# 2011 VLSI Circuits Short Course Program

## “Device Awareness in Circuit Design”

Tuesday, June 14, 2011 (Suzaku I)

Organizers/Chairs: Masato Yoshioka, *FUJITSU LABORATORIES LTD.*  
Gunther Lehmann, *Infineon Technologies*

8:10	<b>Introduction</b> Masato Yoshioka, <i>FUJITSU LABORATORIES LTD.</i>
8:15	<b>Random Variability: Measurements and Its Impact on SRAM Stability</b> Toshiro Hiramoto, <i>The Univ. of Tokyo</i>
9:15	<b>Noise from Scaled CMOS Device</b> Tatsuya Ohguro, <i>Toshiba Corp.</i>
10:15	Break
10:30	<b>Cause, Detection, and Impact of Charge Trapping on Aging</b> Tibor Grasser, <i>Vienna Univ. of Technology</i>
11:30	Lunch
13:15	<b>Technology Platform Selection and Its Impact on Design Parameters</b> Been-Jon Woo, <i>TSMC</i>
14:15	<b>Variation Monitoring and Management Systems for Low-power and Dependable LSIs</b> Koichi Nose, <i>Renesas Electronics Corp.</i>
15:15	Break
15:30	<b>Device Awareness in Fabless Mass Production - Digital Aspects</b> Venugopal Puvvada, <i>Qualcomm India Pvt Ltd.</i>
16:30	<b>Device Awareness in Fabless Mass Production - Analog/RF</b> Hooman Darabi, <i>Broadcom Corp.</i>
17:30	<b>Conclusion</b> Gunther Lehmann, <i>Infineon Technologies</i>

(as of June 6, 2011)

# 2011 VLSI Circuits Workshop Program

## “Bio Inspired Computation -What Electronics can learn from Bio-”

Tuesday, June 14, 2011 (Suzaku III)

Organizers/Chairs: Makoto Ikeda, *The Univ. of Tokyo*  
Michael P. Flynn, *Univ. of Michigan*  
Chen Yi Lee, *National Chiao Tung Univ.*

8:10	<b>Introduction</b> Makoto Ikeda, <i>The Univ. of Tokyo</i>
8:15	<b>Cyborg Beetles: The Remote Radio Control of Insect Flight</b> Michel M. Maharbiz, <i>Univ. of California, Berkeley</i>
9:15	<b>Ultrasound Imaging using MEMS Sensor Array</b> Shuntaro Machida, <i>Hitachi, Ltd.</i>
10:15	Break
10:30	<b>Transitioning Neuromorphic Approaches from Science to Engineering Solutions</b> Paul Hasler, <i>Georgia Tech</i>
11:30	Lunch
13:15	<b>Bio-inspired Vision</b> Tobi Delbruck, <i>Univ. of Zurich and ETH Zurich</i>
14:15	<b>Cognitive Computing: From Neuroscience to Neural-Inspired Chips</b> Paul A. Merolla, <i>IBM Corp.</i>
15:15	Break
15:30	<b>Embedded Real-Time Processor for Massively Distributed Robot Control</b> Nobuyuki Yamasaki, <i>Keio Univ.</i>
16:30	<b>Conclusion</b> Michael P. Flynn, <i>Univ. of Michigan</i>

(as of June 6, 2011)