

Inauguration of SSCS (Solid State Circuits Society) Chapter of IEEE PCJS

Date: Thursday, September 17th 2009

Venue: Room 116, Biomedical Engineering Bldg, Busch Campus Rutgers University, 599 Taylor Road, Piscataway, NJ 08854

Time: 5:30 pm – 8:00 pm (5:30 pm – 6:00 – Refreshments, 6:00 – 8:00 pm – Talks)

Speakers:

1. **Prof. Jan Van der Spiegel**, Professor, Department of Electrical & System Engineering, (School of Engineering and Applied Sciences) University of Pennsylvania, IEEE SSCS Chapters Chairs Coordinator.

Title: “Introduction to SSCS Society and its chapters”

Speaker Bio: <http://www.ese.upenn.edu/~jan>

Jan Van der Spiegel is a Professor of the Electrical and Systems Engineering Department, and the Director of the Center for Sensor Technologies at the University of Pennsylvania. He is the former chair of the Electrical Engineering and interim chair of the Electrical and Systems Engineering Departments. Dr. Van der Spiegel received his Masters degree in Electro-Mechanical Engineering and his Ph.D. degree in Electrical Engineering from the University of Leuven, Belgium, in 1974 and 1979, respectively. His primary research interests are in mixed-mode VLSI design, CMOS vision sensors for polarization imaging, biologically based image sensors and sensory information processing systems, micro-sensor technology, and analog-to-digital converters. He is the author of over 160 journal and conference papers and holds 4 patents.

He is a fellow of the IEEE 2007 EAB Major Educational Innovation Award, the IEEE, the recipient of the IEEE Third Millennium Medal, the UPS Foundation Distinguished Education Chair and the Bicentennial Class of 1940 Term Chair. He received the Christian and Mary Lindback Foundation, and the S. Reid Warren Award for Distinguished Teaching, and the Presidential Young Investigator Award.

He has served on several IEEE program committees (IEDM, ICCD, ISCAS and ISSCC) and was the technical program chair of the 2007 International Solid-State Circuit Conference (ISSCC 2007). He is an elected member of the IEEE Solid-State Circuits Society and is also the SSCS chapters Chairs coordinator and former Editor of Sensors and Actuators A for North and South America. He is a member of Phi Beta Delta and Tau Beta Pi.

2. **Prof. Peter Kinget**, Associate Professor, Department of Electrical Engineering, Columbia University.

Title: “Designing Analog and RF Circuits in Nanoscale CMOS Technologies: Scale the Supply, Reduce the Area and Use Digital Gates”

Abstract: We will present our recent research that has centered around three themes aimed at designing analog and RF interface circuits in digital nano scale CMOS processes. Design techniques for analog and RF circuits operating well below 1V can keep them compatible with future low power digital SOCs. Reclaiming the space under inductors is necessary to reduce area

and cost. Digital gates can facilitate self-calibration for RF front ends to improve performance and simplify design.

Speaker Bio: <http://www.ee.columbia.edu/~kinget/>

Peter R. Kinget received an engineering degree in electrical and mechanical engineering and the Ph.D. in electrical engineering from the Katholieke Universiteit Leuven, Belgium.

He has worked in industrial research and development at Bell Laboratories, Broadcom, Celight and Multilink before joining the faculty of the Department of Electrical Engineering, Columbia University, NY in 2002. His research interests are in analog and RF integrated circuits and signal processing using nanoscale CMOS technologies.

He has been an Associate Editor of the IEEE Journal of Solid State Circuits (2003-2007) and is currently an Associate Editor for the IEEE Transactions on Circuits and Systems II. He is also serving on the Technical Program Committees of the International Solid-State Circuits Conference and the European Solid-State Circuits Conference.

Dr. Kinget is a Senior Member of the IEEE. He was Associate Editor of the IEEE Journal of Solid State Circuits (2003-2007) and is currently a Distinguished Lecturer of IEEE SSSC.

Directions:

The location and directions to the Biomedical Engineering Building can be found at:
<http://maps.rutgers.edu/building.aspx?id=1089>

The Biomedical Engineering Building is located close to the Electrical Engineering Building on the Busch Campus. The room that we have access to in the Biomedical Engineering Building is on the first floor near the front entrance that is directly adjacent to a convenient parking lot.

RSVP: Nagi Naganathan

Email: Nagi.Naganathan@lsi.com OR Phone: (610) 712-1584

PCJS Web Site: <http://ewh.ieee.org/r1/princeton-centraljersey>