

## **EOS/ESD Symposium Best Student Paper Awards**

- 2000** "Chip-Level Simulation for CDM failures in Multi-Power ICs"  
**Jaesik Lee, University of Illinois**
- 2001** "Human Body Model Test of a Low Voltage Threshold SCR Device: Simulation and Comparison with the Transmission Line Pulse Test"  
**P. Galy, Pole Universitaire Leonard de Vinci**
- 2002** "ESD Characterization of Grounded-Gate NMOS with 0.35  $\mu\text{m}$ /18 V Technology Employing Transmission Line Pulser (TLP) Test"  
B-C Jeon, S-C Lee, J-K Oh, S-S Kim, M-K Han, Seoul National University; Y-I Jung, H-T So, J-S Shim, K-H Kim, Hynix Semiconductor Inc.
- 2003** "Comprehensive ESD Protection for RF inputs"  
S. Hyvonen, S. Joshi, E. Rosenbaum, University of Illinois at Urbana-Champaign
- 2004** "Study of CDM Specific Effects for a Smart Power Input Protection Structure"  
M. Etherton, N. Qu, J. Willemen, W. Wilkening, S. Mettler, M. Dissegna, R. Stella, L. Zullino, A. Andreini, h. Gieser, H. Wolf, W. Fichtner Swiss Federal Institute of Technology
- 2005** "SCR Operation Mode of Diode Strings for ESD Protection"  
U. Glaser, M. Ciappa, W. Fichtner, ETH Zurich; K. Esmark, C. Russ, M. Streibl, Infineon Technologies; K. Domanski, Infineon Technologies and Nicolaus Copernicus University
- 2006** "Transmission Line Pulse (TLP) Testing of Radio Frequency (RF) Micro-machined Micro-Electro-Mechanical-Systems (MEMS) Switches"  
A. Tazzoli, V. Peretti, E. Zanoni, G. Meneghesso, University of Padova
- 2007** "Reliability Aspects of Gate Oxide under ESD Pulse Stress"  
Adrien Ille, Université de Provence and Infineon Technologies, Wolfgang Stadler, Thomas Pompl, Harald Gossner, Tilo Brodbeck, Kai Esmark, Philipp Riess, David Alvarez, Infineon Technologies; Kiran Chatty, Robert Gauthier, IBM; Alain Bravaix, Université de Provence
- 2008** "Design Methodology of FinFET Devices that Meet IC-Level HBM Target"  
S. Thijs, G. Groeseneken, IMEC vzw and Katholieke Universiteit Leuven; C. Russ, H. Gossner, Infineon Technologies AG; D. Trémouilles, LAAS/CNRS; A. Griffoni, University of Padova; D. Linten, M. Scholz, N. Collaert, R. Rooyackers, M. Jurczak, IMEC vzw; M. Sawada, T. Nakaei, T. Hasebe, Hanwa Electronics Ind. Co. Ltd; C. Duvvury, Texas Instruments Inc.
- 2009** "ESD Time-Domain Characterization of High-k Gate Dielectric in a 32 nm CMOS Technology"  
James Di Sarro, Elyse Rosenbaum, University of Illinois at Urbana-Champaign; Yang Yang, Dimitris Ioannou, George Mason University; Kiran Chatty, Robert Gauthier, Souvick Mitra, Junjun Li, IBM; Christian Russ, Infineon Technologies
- 2010** "Investigation of Current Flow During Wafer-Level CDM Using Real-Time Probing"  
Nathan Jack and Vrashank Shukla, Advisor – Prof. Elyse Rosenbaum, University of Illinois at Urbana-Champaign

- 2011** “ESD Simulation with Wunsch-Bell based Behavior Modeling Methodology”  
Yiqun Cao, Infineon Technologies and Technische Universität Dortmund  
Advisor: Stephan Frei, Technische Universität Dortmund, Co-authors: Ulrich Glaser, Joost Willemen, Filippo Magrini, Michael Mayerhofer, Matthias Stecher, Infineon Technologies
- 2012** “ESD Characterization of Atomically-Thin Graphene”  
Hong Li, Kaustav Banerjee, Wei Liu, University of California; Christian C. Russ, David Johnsson, Harald Gossner, Intel Mobile Communications
- 2013** “Predictive Modeling of Peak Discharge Current during Charged Device Model Test of Micro-Electronic Components”  
Vrashank Shukla, University of Illinois at Urbana-Champaign Advisor: Elyse Rosenbaum, University of Illinois at Urbana-Champaign Co-Authors: Gianluca Boselli, Mariano Dissegna, Charvaka Duvvury, Raj Sankaralingam, Texas Instruments, Inc.
- 2014** “Do Devices on PCBs Really See a Higher CDM-like ESD Risk?”  
Robert Mertens, University of Illinois at Urbana-Champaign Advisor: Elyse Rosenbaum University of Illinois at Urbana-Champaign Co-authors: Nicholas Thomson, Yang Xiu University of Illinois at Urbana-Champaign
- 2015** CDM-Reliable T-coil Techniques for High-Speed Wireline Receivers  
Min-Sun Keel, University of Illinois at Urbana-Champaign; Advisor: Elyse Rosenbaum University of Illinois at Urbana-Champaign