

12th International Workshop on Computational Electronics

October 8-10, 2007- University of Massachusetts, Amherst- USA



First Call for Papers



Conference Organizers

Prof. Massimo Fischetti (Chair), University of Massachusetts, USA
Prof. Eric Polizzi (co-Chair), University of Massachusetts, USA
Prof. Neal Anderson (co-Chair), University of Massachusetts, USA

Advisory Committee

Prof. John Barker, University of Glasgow, UK
Prof. Aldo Di Carlo, University of Rome "Tor Vergata", Italy
Prof. Massimo (Max) Fischetti, University of Massachusetts, USA
Prof. Stephen Goodnick, University of Arizona, USA
Prof. Chihiro Hamaguchi, Kochi University of Technology, Japan
Prof. Joseph Jerome, Northwestern University, USA
Prof. Gerhard Klimeck, Purdue University, USA
Prof. Wolfgang Porod, Notre Dame University, USA
Prof. Marco Saraniti, Illinois Institute of Technology, USA
Prof. Siegfried Selberherr, Technical University, Vienna, Austria
Prof. Michael Stroschio, University of Illinois-Chicago, USA
Prof. Hideaki Tsuchiya, Kobe University, Japan
Prof. Peter Vogl, Technical University-Munich, Germany

Program Committee

Prof. Asen Asenov, Glasgow University, UK
Dr. Andrea Bertoni, National Research Center S3, INFN-CNR, Italy
Prof. Francisco Gamiz, Granada University, Spain
Dr. Martin Giles, Intel Corp., US
Prof. Irena Knezevic, University of Wisconsin, Madison, US
Prof. Roger Lake, University of California, Riverside, US
Dr. Steve Laux, IBM, US
Prof. Jean-Pierre Leburton, UIUC, USA
Dr. Keun-Ho Lee, Samsung Corporation, South Korea
Prof. Bernd Meinerzhagen, Braunschweig University, Germany
Prof. Walter Pötz, Karl Franzens University, Austria
Prof. Massimo Rudan, University of Bologna, Italy
Prof. Nobuyuki Sano, Tsukuba University, Japan
Prof. Shin-Ichi Takagi, Tokyo University, Japan
Prof. Zhiping Yu, Tsinghua University, China

The workshop covers all aspects of advanced simulation of electronic transport and optoelectronic processes in semiconductors and semiconductor devices based on both inorganic and organic materials. The scientific program consists of invited lectures, contributed talks, and poster presentations. The workshop is intended to be an international forum for discussions on the current trends and future directions of computational electronics. The emphasis of the contributions is on interdisciplinary aspects of computational electronics, touching physics, engineering, applied mathematics, as well as chemistry and biology. Active participation of graduate students, including student presentations, is strongly encouraged.

As in past edition of the workshop, we are planning sessions on the following themes:

- *Technology CAD*
- *Monte Carlo transport simulations*
- *Quantum Transport*
- *Optical processes/optoelectronics*
- *Nanotubes, nanowires*
- *Molecular electronics*
- *Ab-initio and atomistic simulations*
- *Biological systems*
- *Physical limits of information processing (new)*

An abstract consisting of one page text and one page figures should be sent by e-mail to iwce12@ecs.umass.edu following the instructions posted in the website. Accepted abstracts will be published in a Book of Abstracts. The conference proceedings will be peer-reviewed and will be published in the Journal of Computational Electronics.

Important Dates

Abstract submission	June 1, 2007
Notification of acceptance	July 15, 2007
Early registration	August 1, 2007
Proceeding papers due	October 8, 2007
Conference	October 8-10, 2007



<http://www.iwce.org>