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CALL FOR PAPERS

10th International Workshop on Computational Electronics (IWCE-10)



PURDUE
UNIVERSITY

West Lafayette, Indiana, USA

October 24-27, 2004

THEME

IWCE 10: "The field of Computational Electronics - Looking back and looking ahead"

Review and advancements of TCAD, Monte-Carlo, Optical Processes, and Quantum Transport and growth into developing areas of Molecular/Organic Electronics, Nano-Bio-Electronics, and Alternative Computing Architectures.

CALL FOR PAPERS

Paper submissions in the traditional IWCE areas of TCAD, Monte-Carlo, Optical Processes, and Quantum Transport are requested. Focus of the presentation on novel computational aspects is encouraged. We plan to continue the tradition of workshop-like lively discussion of "nuts and bolts". Members of our community are also encouraged to engage scientists and engineers (computational as well as experimental) to provide their view of the upcoming (computational/modeling) challenges in the new growth areas of Molecular/Organic Electronics, Nano-Bio Electronics, and Alternative Computing Architectures.

INVITED SPEAKERS AND TOPIC AREAS

<i>Quantum Transport</i> Supriyo Datta, Purdue University	<i>Molecular and Organic Electronics</i> Paolo Lugli, Technical University of Munich
<i>Monte Carlo Simulation</i> Massimo Fischetti, IBM Research	<i>TCAD</i> Siegfried Selberherr, Technical University of Vienna
<i>Industry Perspective</i> Martin Giles, Intel (tentative)	<i>Nano-Bio Electronics</i> To Be Determined
<i>Optical Processes</i> Karl Hess, University of Illinois	

LOCATION OF WORKSHOP

Purdue University's main campus is located in West Lafayette, Indiana, USA, 126 miles southeast of Chicago and 65 miles northwest of Indianapolis. Founded in 1869 and named after benefactor John Purdue, the University is one of the nation's leading research institutions with a reputation for excellent and affordable education.



ABSTRACTS

An extended abstract consisting of one page of text (typed in 12pt New Roman font; preferably as a MS Word or PDF attachment) plus one page figures must be submitted by email to: iwce10@ecn.purdue.edu. An abstract template is available for download at www.iwce.nanohub.org. The extended abstracts will be peer reviewed by the program committee. Abstracts exceeding the 2 page limit will be rejected. We plan to publish the extended abstracts with IEEE. The deadline for abstract submission is June 14, 2004.

PROCEEDINGS

The conference proceedings will be published in the *Journal of Computational Electronics*. The authors of accepted contributions will be requested to submit three copies of their manuscript. All papers for the proceedings are due on the first day of the conference, and will be subject to peer review during the conference.

REGISTRATION

Registration details can be found on the workshop web page:

www.iwce.nanohub.org

IMPORTANT DATES

Abstract Submission.....	June 14, 2004
Notification of Acceptance	August 2, 2004
Pre-Registration Deadline.....	September 15, 2004
Workshop.....	October 24-27, 2004

WORKSHOP HOSTS

