

# International Workshop on Computational Electronics

May 25-27, 2006 • TU Vienna, Austria

## Second Call for Papers

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.



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### General Topic Areas

Advancements of TCAD • Monte Carlo and molecular dynamics methods • Simulation of optical processes and optoelectronic devices • Quantum transport and dynamics of nanostructures • Molecular and organic electronics • Nano-bio electronics • Alternative computing architectures.

### Abstracts and Proceedings

Contributors must upload a two page abstract in PDF format. Style files for Latex and MS Word are provided on the conference homepage. Accepted abstracts will be published in a Book of Abstracts. The authors are encouraged to submit an extended version of their contribution for the conference proceedings which will be published in the Journal of Computational Electronics. Both, the two page abstract and the extended abstract, are subject to peer review.

### Invited Speakers

Phaedon Avouris, IBM, USA  
Andrea Bertoni, University of Modena, Italy  
Roberto Car, Princeton University, USA  
Jürgen Hafner, University of Vienna, Austria  
Karl Hess, University of Illinois, USA  
Eric Polizzi, University of Massachusetts, USA  
Marco Saraniti, Illinois Institute of Technology, USA  
Thomas Skotnicki, STMicroelectronics, France  
Peter Vogl, Technical University Munich, Germany

### Important Dates (2006)

Abstract submission	15 Jan
Notification of acceptance	28 Feb
Early registration	15 Apr
Extended abstract due	25 May
Conference	25-27 May

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