



Symposium and Summer School on:

Nano and Giga Challenges in Microelectronics

Research and Opportunities in Russia

Moscow, September 10-13, 2002

<http://www.AtomicScaleDesign.Net/Moscow>

Abstract Submission

1. **Online:** Please submit your abstract online at:
<http://www.asdn.net/moscow/speaker-info.shtml>
2. Alternatively, you can send your abstract as an email attachment to:

organizers@AtomicScaleDesign.Net

Please ensure that the presenting author's name is underlined in the author list. Abstracts are limited to one page of text (12 point or larger type). Abstracts are due by **May 10**, 2002 along with the full address (including e-mail if available) of the corresponding author. We can process TeX and LaTeX (providing you include your style sheets), PDF, RTF, PostScript, MS-WORD, StarOffice, and plain text. To insure that we have the correct contact information, the corresponding author is also requested to register online.

Manuscript Submission

Manuscripts must be submitted at the conference and will be subjected to a critical peer review before they can be accepted for publication. Details on publication of proceedings will be announced shortly (before March 30).

Invited Speakers

Bruno Chaudret, Ramon Compano, Gabriel Crean, David Ferry, Julian Gale, David Gilmer, Willam Goddard III, Eugene Golant, David Graves, Vladimir Gritsenko, Detlev Gruetzmacher, Evgeni Gusev, Takeo Hattori, Howard Huff, Natalia Kirova, Nikolay Kukhtarev, Patrick Lenahan, Konstantin Likharev, Gerald Lucovsky, Oleg Okhotnikov, Alexander Popov, Efim Portnoi, Victor Printz, Otto Sankey, Konstantin Svidzinskiy

Conference Co-Chairmen

Andreas Wild (DDL Motorola, Germany)
Evgeniy Velikhov (Kurchatov Institute, Russia)

Organizing & Program Committee

Boris Aronzon, Alexander Bagatur'yants, Gennadi Bersuker, Vladimir Betelin, Bruno Chaudret, Evgeniya Davidova, Alex Demkov, Rickey Faehl, Konstantin Golant, Alexey Golubev, Jim Greer, Evgeniy Gusev, Pavel Kashkarev, Anatoli Korkin, Jan Labanowski, Maria Oseeva, Dmitry Panfilov, Boris Potapkin, Doug Resnick, Irene Rybakova, Elena Shulakova, Alex Volinsky, Alexander Zakharov

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Conference Sponsors

Digital DNA Lab Motorola, US Department of Energy, Nuclear Cities Initiative, Nuclear Threat Initiative, Russian Academy of Sciences, Russian Research Center Kurchatov Institute, Moscow State University

Contact Information

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Venue

Summer School: Department of Physics, Moscow State University,

Symposium: House of Scientists of the Russian Academy of Sciences

2nd Call for Papers (updated March 6, 2002)

Symposium and Summer School on: Nano and Giga Challenges in Microelectronics Research and Opportunities in Russia Moscow, September 10-13, 2002

<http://www.AtomicScaleDesign.Net/Moscow>

Conference Background

An essential enabler of the information society -- microelectronics -- is a field at the threshold of a new phase. The next stage, involving nanometer scale structures, and integration levels including billions of transistors, presents a number of unprecedented challenges in their practical realization, and requires new materials, new technologies in photolithography and semiconductor processing, new devices, and new design strategies.

Russia, with its large intellectual potential, outstanding education system, and strong scientific tradition, is in the position to make a significant contribution toward solving these challenges. This meeting is dedicated to bringing together scientists and engineers from academia, industry and national labs to discuss recent achievements and collaborative efforts in solving these problems. The leaders in the field are also invited to present lectures that outline current status, and venture into emerging areas of microelectronics and nanotechnology.

Meeting Format

The scientific program includes a Summer School (first 2 days) and a Symposium (last 2 days). The Summer School program consists of tutorial (plenary) lectures followed by panel discussions involving both participants and speakers. The Symposium includes plenary sections in the morning, which are followed

by oral presentations and poster sessions in the afternoon. Evening sessions will focus on technology trends and collaborative discussions.

Technical Scope

Abstracts are invited in the following areas:

- atomic scale design: theory and experiment
- fabrication of nanodevices
- highest frequency electronics
- integrated optoelectronics
- magnetic materials and spintronics
- molecular electronics
- new materials and processes for future FETs
- non-silicon materials and devices
- Predicting Global Technology Trends
- quantum effects in devices
- system design technologies
- tutorials on nanoelectronics

Accommodations

A variety of hotel and lodging options will be suggested shortly by organizers. Group discounts will be announced in April or May for the registered participants. General information about hotel prices is available at: <http://www.moscow-hotels.net/>

Social programs will be available for participants and accompanying persons.

Visa Information

Organizers will provide invitation letters to registered participants and speakers (paid fees). Details are available at <http://www.asdn.net/moscow/visa.shtml> or from Evgeniya Davidova (davidova@kintech.ru)

Registration

Online registration: www.asdn.net/moscow/
By e-mail: alex.volinsky@motorola.com

By mail (registration & conference fee):
Ohio Supercomputer Center
Nano and Giga Symposium
Attn. Jan K. Labanowski
1224 Kinnear Rd
Columbus, OH 43212-1163, USA

along with a check or money order (issued in US Dollars) payable to "Nano and Giga Symposium". If you prefer to pay via bank/wire transfer, please contact us for the SWIFT code and account number at organizers@asdn.net and we will promptly provide you with the information.

Early Registration Fee -- By June 1, 2002:
Regular participants: 200 US Dollars;
Full time students: 100 US Dollars

Registration Fee after June 1, 2002:
Regular participants: 300 US Dollars;
Full time students: 150 US Dollars

Name: _____

Organization: _____

Address: _____

City: _____ State: _____ Zip: _____

Country: _____

Phone: _____

Fax: _____

Email: _____

Registration fee will be fully reimbursed if cancellation is received before July 1, 2002. After this date, a service fee of 20% will be charged on cancelled registrations.