



Symposium and School on Nano and Giga Challenges in Electronics and Photonics (NGC2007):

from Atoms to Materials to Devices
to System Architecture

Phoenix, Arizona, March 12-16, 2007

<http://asdn.net/ngc2007/>



Co-chairmen: Herbert Goronkin, Stephen Goodnick, Anatoli Korkin

Invited Speakers: H. Baranger (Duke University), D. Basov (University of California San Diego), J. Baumberg (University of Southampton), I. Baumvol (Federal University of Rio Grande do Sul), N. Bloembergen (University of Arizona), M. Buttiker (University of Geneva), R. Chau (Intel), L. Chernozatonskii (Institute of Biochemical Physics), B. Chichkov (Laser Zentrum Hannover), M. Ciurea (National Institute of Materials Physics), A. Dediu (CNR ISMN), A. Demkov (University of Texas at Austin), T. Ebbesen (Louis Pasteur University), A. Efros (University of Utah), G. Fagas (Tyndall National Institute), O. Fesenko (Materials Science Institute of Madrid), T. Fujisawa (NTT Basic Research Laboratories), S. Goodnick (Arizona State University), H. Guo (McGill University), Y. Hirayama (NTT Basic Research Laboratories), H. Iwai (Tokyo Institute of Technology), T. Kalganova (Brunel University), Ki-Bum Kim (Seoul National University), R. Kawakami (University of California Riverside), K. Lian (Motorola Labs), Ran Liu (Fudan University), L. Loo (University of Texas at Austin), Yu. Lozovik (Institute of Spectroscopy), S. Luryi (Stony Brook University), S. Mao (University of California Berkeley), G. Maracas (Motorola), K. Matsumoto (Osaka University), S. Mathur (Leibniz-Institut fuer Neue Materialien), P. Mueller (IBM), M. Niemier (Georgia Institute of Technology), T. Otsuji (Tohoku University), Z. Petrovic (Institute of Physics Belgrade), N. Peyghambarian (Arizona University), M. Pimenta (Federal University of Minas Gerais), J. Polyani (University of Toronto), D. Porath (Hebrew University of Jerusalem), G. Redmond (Tyndall National Institute), M. Reed (Yale University), E. Riedo (Georgia Institute of Technology), F. Rosei (University of Quebec), O. Sankey (Arizona State University), W. Schmidt (University of Paderborn), T. Schulthess (Oak Ridge National Laboratory), Li Shi (University of Texas at Austin), Z. Shuai (Institute of Chemistry Beijing), D. Strukov (Stony Brook University), M. Vazquez (Materials Science Institute of Madrid), Z. Wang (Georgia Institute of Technology), S. Williams (Hewlett Packard), P. Yang (University of California Berkeley), X. Zhang (Oak Ridge National Laboratory), N. Zhitenev (Lucent Technologies)

GIGAntic challenges for the continuing growth of information technologies beyond the fundamental physical limits in scaling electronic devices to NANO dimension has sparked an unprecedented level of interdisciplinary and international cooperation. The series of the conferences on Nano and Giga Challenges (NGC) in electronics and photonics has been launched to bridge today's micro-, tomorrow's nano- and future molecular electronics from the fundamental science perspective to development of novel technologies. The third Nano & Giga forum (NGC2007) will be held in Phoenix, Arizona March 12-16, 2007. The conference will be hosted by Arizona State University in cooperation with Nano & Giga Solutions and local, national and international organizations, Universities, research centers, companies and governmental agencies. NGC2007 invites academic and industrial researchers to present tutorial, expository and original research papers dedicated to the science and advanced technology related to the merger of micro- and nanoelectronics and photonics. The industry showcase will enable leading edge commercial and pre-commercial products from start-up, early-stage, and corporate projects to present their business cases, to exhibit, and to sponsor this conference.

For further information and registration visit our web site at: <http://asdn.net/ngc2007/> or contact Jody.Seeling@asu.edu; tel: 480-965-9572; fax: 480-727-7001