

**Panel Discussion: "Nanotechnology: present and future challenges" (April 5, 2005)**

Daniel Herr	Semiconductor Research Corporation
Rajinder Khosla	National Science Foundation (Engineering)
Lynnette Madsen	National Science Foundation (MPS)
Conrad Masterson	Nanotechnology Foundation of Texas
Christie Marrian	IBM Almaden Research Center
Morley Stone	DARPA/DSO

**Invited Speakers**

Suprivo Bandyopadhyay	Virginia Commonwealth University	Nanocircuits
Vitor Baranauskas	Universidade Estadual de Campinas, Brazil	Nanomaterials for Bone Engineering
George Barbastathis	Massachusetts Institute of Technology	Photonics Integration with Nano-origami process
Ray Baughman	University of Texas - Dallas	Applications of CNT-Based Materials
Bharat Bhushan	Ohio State University	Nanotribology
Marc Cahay	University of Cincinnati	Spin-injection in Ferromagnetic Semiconductors
Adriano Cavalcanti	Center for Automation in Nanobiotech, Brazil	Nanorobotics in Biomedical Engineering
Manish Chhowalla	Rutgers University	CNT based MEMS
Stephen Goodnick	Arizona State University	Single Electron Transistor Circuits
Russell Cowburn	University of Durham, UK	Magnetic Nanostructures for Digital Logic
Martin Culpepper	Massachusetts Institute of Technology	Nanorobotics
Masamichi Fujihira	Tokyo Institute of Technology, Japan	Single Molecule Electronics
Michael Galperin	Northwestern University	Electron Transport in Molecular Systems
Maria Gracheva	University of Illinois at Urbana-Champaign	DNA Detection using Artificial Silicon Nanopores
Chih-Ming Ho	University of California - Los Angeles	Nanofluidics
Seungbum Hong	Samsung, South Korea	MEMS Based Data Storage
Naomi Halas	Rice University	Plasmonics
Sang-Gook Kim	Massachusetts Institute of Technology	Carbon Nanotube Nano-Geometries
Won-Jong Kim	Texas A&M University	Magnetic Levitation Based Nanopositioners
Laszlo Kish	Texas A&M University	Fluctuations and Noise in Nanoelectronics
Todd Krauss	University of Rochester	Colloidal Quantum Dots
Heiner Linke	University of Oregon	Reversible Thermoelectric Nanomaterials
Michal Lipson	Cornell University	All-Optical Switching in Silicon
Yungfeng Lu	Tulane University	Self-Assembly of Optoelectronic Devices
Christie Marrian	IBM Almaden Research Center	Nanotechnology challenges-Industry Prospective
Terry McDaniel	Seagate Technology	Heat-Assisted Nanoscale Magnetic Recording
Wolfgang Porod	University of Notre Dame	Magnetic Logic
Rampi Ramprasad	University of Connecticut	Mesoscopic Device Systems
Slava Rotkin	Lehigh University	Nanoscale Field-Effect Devices
Marco Saraniti	Illinois Institute of Technology	Transport through Ion Channels
Hyungcheol Shin	Seoul National University, South Korea	MEMS Based Resistive Probes
Metin Sitti	Carnegie Mellon University	Biomimetic Gecko Foot-Hairs
Henry I. Smith	Massachusetts Institute of Technology	Advanced Lithography
S.V. Sreenivasan	Molecular Imprints	Step-and-Flash Imprint Lithography
Vivek Subramanian	University of California - Berkeley	Self-assembly and Nanostructured Materials
Erik Svedberg	National Institute of Standards & Technology	Electrochemical Deposition at Nanoscale
Masaru Tsukada	Waseda University	Molecular Electronics

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Invited Speakers

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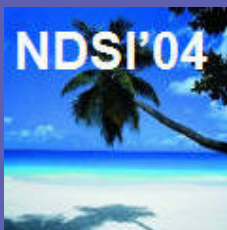
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Kimberly Turner	University of California - Santa Barbara	Fabrication of MEMS and NEMS
Jelena Vuckovic	Stanford University	Photonic Crystals
Yasuo Wada	Waseda University, Japan	Single Molecule Electronic Devices
Jennifer West	Rice University	Medical Applications of Gold Nanoparticles
Richard Willson	University of Houston	Molecular Recognition Technologies
Jane Wu	University of Tennessee	MEMS for Biofluidics
Ning Xi	Michigan State University	Augmented Reality SPM Systems
Yongbing Xu	University of York, UK	Spin-Transport in Magnetic Nanowires

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