



**SAN FRANCISCO BAY AREA
NANOTECHNOLOGY COUNCIL**

Announcing a Half-Day Symposium

Nanotech: Imagine the Possibilities!

First Annual Symposium Showcasing University Graduate Research.

See the frontier in Nanotechnology and help shape it.

Tuesday November 15, 2005 12 Noon Sunnyvale, CA

Novel features of this Symposium include:

- Pre-publication briefs of university graduate research topics in nanotechnology.
- Challenge to the attendees to contribute imagined potential applications and opportunities that may transcend the present scope of the presented work.
- Ample opportunity for networking with the graduates and other attendees.

Graduate research topics to be presented include:

- Nanoscale optical devices on DNA scaffolds
- Nanotube nanofluidic transistors and circuits
- Anti-cancer drug delivery using viruses
- Ferromagnetic nanowires and high density storage
- Nanowire-based photonics and sensing
- Fabrication of nano-devices through biological catalysts
- Carbon nanofibers in IC interconnect vias

Where: National Semiconductor, 955 Kifer Road, Building 31 Santa Clara, CA

Registration:

Please register in advance, space is limited.

Online Registration: <http://www.acteva.com/booking.cfm?bevaaid=97549>

or

RSVP by email to dhavlj@aol.com

IEEE Members, students, unemployed: \$35

Non IEEE Members: \$55

At the door registration: ADD \$10

(cash or checks, no credit cards at the door please)

Directions at: http://ewh.ieee.org/r6/san_francisco/nntc/11_15_05.html



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AGENDA

- 12:00 PM Registration / Light lunch / Networking
12:45 PM Welcome / Introduction
- 1:00 PM **KEYNOTE**
The Impact of University Graduate Research in the United States
- 1:25 PM **DNA-Templated Nanoparticle Assembly: Programmable Scaffolds for Nanoscale Devices.**
Shelley A. Claridge, Department of Chemistry, UC Berkeley
- 1:50 PM **Single Nanotube Nanofluidic Transistors**
Rong Fan, Department of Chemistry, UC Berkeley
- 2:15 PM 15 min Break
- 2:30 PM **Modified Viral Capsids as Targeted Delivery Vectors for Anticancer Agents**
Jacob M Hooker, Department of Chemistry, UC Berkeley
- 2:55 PM **Enzyme Catalyzed Metallic Nanoparticle Synthesis**
Daniel M. Scott, Department of Chemistry, UC Davis
- 3:20 PM **Self-assembled Ferromagnetic alpha-Fe Nanowires for High-density Recording Media Applications.**
Ladan Mohaddes-Ardabili, MSE UC Berkeley
- 3:45 PM 15 min Break
- 4:00 PM **Impedance Analysis Predicts Nanotube-dipole Antennas and Gives Necessary Conditions.**
Ian Lee* and Bart Kosko, Dept. of EE, University of Southern California.
- 4:25 PM **Semiconductor Nanostructures as Subwavelength Optical Elements for Photonics and Sensing.**
Donald J. Sirbully Ph.D. Department of Chemistry, UC Berkeley
- 4:50 PM **Plasma-enhanced CVD Carbon Nanofibers for Interconnect Via Applications.**
Quoc Ngo, Center for Nanostructures, Santa Clara University
- 5:15 PM Concluding remarks
5:30 PM Networking & presentations follow up