



**SAN FRANCISCO BAY AREA
NANOTECHNOLOGY COUNCIL**

Sixth Annual Symposium – 18th and 19th May, 2010

Location: National Semiconductor Conference Center

Bldg E-1, 2900 Semiconductor Drive, Santa Clara, CA

~"NANOTECHNOLOGY: STATE OF THE ART & APPLICATIONS"~

Tuesday May 18th

- 7:30 – 8:05AM Registration & Continental Breakfast;
- 8:05 – 8:10 **Welcome Jack Berg**, Chairman of IEEE SFBA Nanotechnology Council.
- 8:10 – 10:05 **Plenary Session – State of Nanotechnology (AJ Amaro, Symposium Chair)**
- **Dr. Michael Liehr**, VP Strategy CNSE Albany, “*State of US Nanotech*”
 - **Dr. Shuichi Tahara**, Gen. Mgr. Nanoelectronics Res. Labs, NEC Electronics, “*State of Pacific Rim Nanotech.*”
 - **Dr. Richard B. Kaner**, Professor of Chemistry and Professor of Materials Science & Engineering, UCLA, “*Synthesis and Applications of Conducting Polymer Nanofibers.*”
- 10:05 – 10:25 **Coffee Break** (refreshments)
- 10:25 – 12:10 **Session-1 NanoBio Business and Policy (Dr. Vikas khurana, Session Chair)**
- **Mark Bunger**, Director, Lux Research, “*NanoBio Medical Business*”
 - **Dr. Steve Miller**, Chief Commercialization Officer –Zymera, Inc. - “*Molecular Imaging and Biomarker Detection with Bioluminescence Resonance Energy Transfer to Quantum Dot Probes*”
 - **Bikash Chatterjee** - President & CTO -Pharmatech Associates, Inc. - “*Regulatory Issues - Nanotechnology in Therapeutic Delivery Systems*”
- 12:10 – 1:00 **Lunch** and networking
- 1:00 – 2:45 **Session-2 NanoBioMed Technology (Pallab Chatterjee, Session Chair)**
- **Dr. Hus Tigli**, CEO, Silicon Kinetics, “*Nano-porous Silicon for Bio-Sensors*”
 - **Dr. Charles Lieber**, Professor, Harvard, “*Nanoelectronics Meets Biology: From Ultrasensitive Detection to Cellular Interfaces*”
 - **Adityo Prakash**, CEO of Verseon, “*Engineering Novel Drug Molecules: Replacement of Trial and Error Driven Discovery by Systematic Quantitative Methods*”
- 2:45 - 3:00 **Break** (refreshments)
- 3:00 - 4:45 **Session-3 Nano-Enabled Energy (Geetha Dholakia, Session Chair)**
- **James Gee**, Distinguished Member of Technical Staff, Applied Materials, Co. “*Nano-enabled Solar*”
 - **Joe Fisher**, CEO, Contour Energy Systems “*Reshaping Portable Power Using Nano Materials*”
 - **Thomas Daue**, President, Smart Material Corporation, “*Energy Harvesting Systems Using Piezo-electric Macro Fiber Composites*”
- 4:45 - 6:00 **Mixer and networking** / Appetizers / Drinks / Sponsors

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Wednesday May 19th

- 7:30 – 8:05AM Registration and Continental Breakfast
- 8:05 – 8:10 **Welcome Jack Berg, Chairman of IEEE SFBA Nanotechnology Council**
- 8:10 – 9:55 **Session-4 Nano-Materials (Neha Choksi, Session Chair)**
- **Dr. Wenbing Yun**, CTO, Xradia, *"Nondestructive 3D Visualization of Nanoworld"*
 - **Eric Granstrom**, General Manager and V.P. of R&D, Cima NanoTech
"Self Aligning Nano Technology for Electronics"
 - **Dr. Walter Trybula**, IEEE Distinguished Lecturer and Director Nanomaterials Application Center – Texas State University, *"Safely Handling NanoMaterials."*
- 9:55 – 10:15 **Coffee Break** (refreshments)
- 10:15 – 12:00 **Session-5 Nano-Processes (Dr. J. Park, Session Chair)**
- **Dr. Hans Stork**, VP and CTO Applied Materials,
"Nanotechnology in Semiconductor Industry"
 - **Dr. Mike Stuke**, Prof. Max Planck Inst., *"Laser-direct-write creation of free-standing 3D structures and some biotech applications"*.
 - **Dr. Joy Cheng** - Research Staff Member, Lithography Materials Group, IBM Almaden Research Center - *"Nanofabrication: bottom-up meets top-down"*.
- 12:00 – 12:35 **Plenary Session II – State of Nanotechnology (KRS Murthy, Co-Chair)**
Dr. Burton Lee, Stanford Univ, *"State of European Nanotech."*
- 12:35 – 1:25 **Lunch and networking**
- 1:25 – 2:35 **Session-6 Nano-Electronics (Dr. Andy Chao, Session Chair)**
- **Jason Hartlove**, President and CEO Nanosys, Inc.
"From Concept to Creation: The Journey from R&D to Everyday Products"
 - **Dr. Deli Wang**, Professor ECE, UCSD *"Nanowires for Nanoelectronics Applications"*
- 2:35 - 2:55 **Break** (refreshments)
- 2:55 - 4:05 **Session-7 Nano-Enabled Energy II (Kris Verma, Session Chair)**
- **Dr. David Predergast**, LBNL Molecular Foundry,
"Nature of Nano-Scale Interfaces and Mechanisms for Solar Energy Conversion"
 - **Dr. Ted Kamins**, Department of Electrical Engineering, StanfordUniversity
"Semiconductor Nanowires for Photovoltaic Solar Cells: Single Junction, Heterojunction, and Compositionally Graded Arrays"
- 4:05 - 4:30 **Wrap-up /Closing Remarks**

EARLY REGISTRATION (Before 5/14):	TWO DAY IEEE Member	\$160
(Register Early, Limited Seating)	TWO DAY Non IEEE Member	\$210
	ONE DAY IEEE Member	\$120
	ONE DAY NON-IEEE Member	\$150

Register at: <https://www.123signup.com/register?id=mxjmv>
Hotel Reservation at conference rate: www.ieee.org/nano

AT DOOR REGISTRATION ADD \$35 (Checks Only) ..
Must RSVP for At-Door Registration at www.ieee.org/nano