



**SAN FRANCISCO BAY AREA
NANOTECHNOLOGY COUNCIL**

<http://www.ieee.org/nano>

9th Annual Full Day Symposium – May 15, 2013

“Emerging Nano-Bio & Nano-Ionic Technologies and Applications”

Location: Texas Instruments Conference Center, Bldg E-1, 2900 Semiconductor Drive, Santa Clara, CA
<http://www.google.com/search?hl=en&q=2900+Semiconductor+Drive.+santa+clara+%2C+ca&btnG=Google+Search>

- 8.00-8.30 Registration and Breakfast**
- 8:30-8:35 Welcome: Dr. Geetha Dholakia, Chair, IEEE SFBA Nanotechnology Council**
- 8:35-9:15 Keynote Session: (Dr. KRS Murthy, Symposium Chair)**
Dr. Chandrasekhar Narayan, Dir. Science and Technology, IBM Almaden Labs
- 9:15-10:50 Session 1: Non-volatile Memory I (Dr. J. Joshua Yang, Session Chair)**
9:15-09:55 Dr. Rene Meyer, Rambus Labs
Tunnel RRAM Devices
- 09:55-10:35 Dr. Geoffrey Burr, Research Staff Member, IBM Almaden Labs**
Access devices for 3-D crosspoint using Mixed-Ionic-Electronic-Conduction
- 10:35-10:50 Break-Refreshments**
- 10:50-12:10 Session 2: Non-volatile Memory II (Dr. John Paul Strachan, Session Chair)**
10:50-11:30 Lee Cleveland, Vice President, Device Engineering, 4DS
Low Power RRAM
- 11:30-12:10 Prof. Wei Lu, Univ of Michigan, Co-founder and Chief-Scientist, Crossbar-Inc**
RRAM Based on Amorphous Films
- 12:10-12:50 Lunch and Networking**
- 12:50-2:50 Session 3: Nano Bio-Med I (Dr. Jessica Koehne, Session Chair)**
12:50-1:30 Mark Bunger, Research Director, Lux Research
Nanoionics in Medicine: from modest beginnings to potentially bright future
- 1:30-2:10 Prof. Anand Gadre, Director, Stem Cell Instrumentation Foundry, UC Merced**
Applications of Polymeric Micro/Nano-Electro-MEMS in Biotechnology.
- 2:10-2:50 Dr. Rob Meagley, Founder ONE Nanotechnologies**
Creating Chemoselective Surfaces and Films for Sensor Platforms
- 2:50-3:05 Break-Refreshments**
- 3:05-5:00 Session 4: Nano Bio-Med II (Ira Feldman, Session Chair)**
3:05-3:45 Dr. Jessica Koehne, Nano-bio sensing systems Scientist at NASA Ames
Carbon Nanofiber Nanoelectrode Arrays for Biosensing
- 3:45-4:25 Dr. Boaz Vilozny, Bioengineering Dept UC Santa Cruz**
Applications Surface Modification of Glass Nanopores for Bioanalytical Sensing
- 4:25-5:00 Jon Myers, CEO and Founder, Graphene Technologies**
Reversing the Greenhouse - Carbon Dioxide to Graphene Devices
- 4.25-4:30 Concluding Remarks, Geetha Dholakia**

Registration Fee (Breakfast / Lunch Included):

IEEE Members: \$50, Non-Members: \$65, Students \$35. Add \$15 at the door.

SAVE \$15--REGISTER By May 10th ONLINE:

<https://www.123signup.com/register?id=bdpyn>

AT-Door payment registration: <http://sites.ieee.org/sfbanano/>