IEEE/EMC/SCV CHAPTER

MEETING LOCATION:

Applied Materials Building 27 3135 Kifer Road, Santa Clara, CA 95051-0804



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December 2002 issue

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$$\nabla \cdot \vec{\mathbf{D}} = \mathbf{\rho}$$

$$\nabla \cdot \mathbf{B} = \mathbf{0}$$

SCV IEEE/EMC Society Meeting Tuesday, December 10, 2002

Subject: An Overview of Recent Developments in Nanotechnology

Speaker: Dr. Meyya Meyyappan

Director, Center for Nanotechnology (NASA)

Time: 5:30 Social, 7:00 Presentation

Place: Applied Materials Building 27, 3135 Kifer Road, Santa Clara, CA 95051-

0804

Abstract: An Overview of Recent Developments in Nanotechnology Nanotechnology deals with creation of functional materials, devices and systems in the nanoscale through exploiting novel properties (electrical, physical, chemical...) arising solely due to the nanoscale. This is a broad enabling technology with expected impact on materials and manufacturing, electronics and computing, health and medicine, energy, transportation, national security and space exploration. The basic science and applications are of great deal of interest to the IEEE community. This talk will provide an overview of novel nanoelectronics concepts based on carbon nanotubes (CNTs) and molecular electronics, nanosensors and detectors, nanoelectromechanical systems (NEMS), nanoscale materials and fabrication techniques. Please join us and welcome Dr. Meyyappan who will provide you with a glimpse into this new exciting field of Nanotechnology. As usual, the December meeting will include Holiday snacks.

Biography of Dr. M. Meyyappan

Dr. M. Meyyappan is the IEEE Distinguished Lecturer for the IEEE Nanotechnology Council. He is the Director of the Center for Nanotechnology at NASA Ames Research Center in Moffett Field, CA. His Nanotechnology center, established in 1997, consists of about 50 scientists working on various aspects of Nanotechnology including carbon nanotubes for nanoelectronics, sensors and detectors, molecular electronics, inorganic nanowires for sensors and devices, protein nanotubes, Nanotechnology in gene sequencing, quantum computing, computational Nanotechnology, computational quantum electronics and optoelectronics. His center has strong academic ties through programs for undergraduate and high school interns, and visiting faculty and graduate students. For further information, please visit the web site Web:

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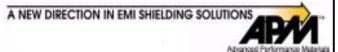


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