

**NANOTECHNOLOGY AND NANOMATERIALS – DEFINITION,  
EMERGING TECHNOLOGIES, MATERIAL TYPES, APPLICATIONS,  
MARKETS, COMMERCIALIZATION AND BUSINESS  
OPPORTUNITIES**

**SUNDAY, MAY 4, 2008, 1.00 p.m. to 5.30 p.m.**

Nanotechnology is an emerging field that investigates the phenomena at the nanometer scale of matter and exploits them to develop materials, devices, and systems of new properties and functions, which cannot be achieved in the micro or macro scales. Nanotechnology has already produced remarkable results in understanding and controlling matter at the molecular levels, and is expected to make a tremendous impact on our industry and society by inducing breakthroughs of tomorrow. The potential benefits of nanotechnology are pervasive in virtually all areas including materials, manufacturing, information technologies, healthcare, energy, environment, national security, etc. Nanotechnology is broad in its nature, and many of the challenges that lie ahead require a multidisciplinary approach in research and development.

With large-scale current and potential use of nanostructured materials (and nanotubes) in applications such as chemical mechanical polishing (CMP), magnetic recording and ferrofluids, sunscreens, catalysts, biodetection/labeling, conductive coatings, optical fibers, FEDs, chips and nanocomposites, the nanotechnology industry is taking off with commercial markets. This workshop provides an overview of the technology, applications and markets for nanomaterials (nanoceramics, nanotubes, nanocomposites, etc.) and nanotechnology segments such as nanoelectronics, nanophotonics, nanomagnetism, nanopatterning and nano for life sciences. The workshop further discusses commercialization and investment opportunities in selected areas.

**WORKSHOP INSTRUCTORS**

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