

Nanotechnology – What is Ahead?

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Abstract—An overview of the National Nanotechnology Initiative, with a description of various technology components currently on the horizon, will be presented. Also, an in-depth discussion of carbon nanotubes (CNT) based nanotechnology will be provided. CNT exhibits extraordinary electrical and mechanical properties and offers remarkable potential for revolutionary applications in electronics devices, computing and data storage technology, sensors, composites, storage of hydrogen or lithium for battery development, nanoelectromechanical systems (NEMS), and as tips in scanning probe microscopy for imaging and nanolithography. A status of nanotechnology research in the US and abroad will be presented.