Physics Colloquium

University of Missouri-Kansas City
Department of Physics

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SYNTHESIS AND APPLICATIONS OF CARBON NANOTUBE ARCHITECTURES

Carbon Nanotubes will play an important role in developing future nanotechnologies. These materials offer a great promise as functional building blocks for applications such as cold cathode displays, field emitters, gas separation and purification, bio-filtration, electrochemical energy storage devices etc. To utilize their full potential, it is necessary to have complete control over their structure, properties and architecture through growth and modification processes. In this presentation specific approaches regarding controlled synthesis of carbon nanotubes and their possible applications will be discussed. Present challenges as well as some future directives in Carbon Nanotube research related to growth will be discussed.

Physics Department
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Coffee at 3:10, Colloquium at 3:30 in Room 310