

Institute Colloquium



by

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Title : **Graphene and Nanotubes: The Rising Stars of Nanotechnology**

Day & Date : Friday, April 9, 2010

Time : 4.00 p.m.

Venue : P.C. Saxena Auditorium

All are Invited.

Abstract: Carbon nanotubes and graphene are one and two-dimensional forms of carbon discovered in the last few years. These have many fascinating physical properties translating into new devices and applications. The talk will discuss new science being done with these nano-systems in our laboratory with a realizable potential for applications. Examples will include new results on generation of voltage by the flow of air on carbon nanotubes [1], how water behaves inside nanotubes [2] and graphene based field effect transistors [3,4].

[1] K. Satyanarayana et.al (2010) ; S. Ghosh et.al. Science **299**, 1042 (2003).

[2] A. Das et.al. ACS Nano (2010).

[3] A. Das et.al. Nature Nanotech. **3**, 210 (2008).

[4] B. Chakraborty et.al Nanotechnology **20**, 365203 (2009) ; K.S. Vasu et.al. (2010).