

MRSEC SEMINAR SERIES

Graphene Synthesis and Applications

Prof. James Tour

Rice University, Houston, Texas

Date: Thursday, October 13, 2011

Time: 3:00 PM

Location: IBB, Suddath Seminar Room

Abstract:

Several new routes to the growth, preparation and manipulation of graphene and its derivatives will be presented. The graphene growth can be controlled for monolayer, bilayer and multilayer structures. The graphene derivatives include graphene oxide, graphene oxide nanoribbons, graphene nanoribbons, edge functionalized graphene nanoribbons, and intercalated multilayer structures with precise real-time de-intercalation being observed. The use of graphene in electronics, materials and oil exploration applications will be discussed.
