NANYANG TECHNOLOGICAL UNIVERSITY

# CBC SEMINAR ANNOUNCEMENT


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## Controlled Synthesis and Assembly of Carbon based Materials for New Applications


As low dimensional materials, graphene and carbon nanotubes (CNT) exhibit exceptional properties such as high carrier mobility, high electrical and thermal conductivity and large specific surface area, which render them promising materials in many applications. By controlling synthesis and assembly, the exotic properties of graphene and CNT were able to be extended to macro-scale. These materials have been successfully applied in transparent electrode, thin film transistor, energy storage devices and various other applications. Conjugated polymers are another type of semi-conductive materials which are suitable for flexible electronics. Starting from a commercial dye molecule (diketopyrrolopyrrole), we demonstrated that stable conjugated polymers can be achieved and applied in many organic electronics applications.
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| **Date:** | **20th January 2012 (Friday)** |
| **Time:** | **11:00am – 12:30pm** |
| **Venue:** | **NTU SPMS CBC Building Level 2, Conference Room** |
| **Host:** | **Assoc Professor Li Tianhu** |