

IIT Bombay is organising an Institute Colloquium on Thursday, September 29, 2011. The details are as follows:



Speaker **Prof. Anthony K. Cheetham FRS**  
Department of Materials Science and Metallurgy  
University of Cambridge  
United Kingdom

Title : **Recent Advances in Inorganic-Organic Framework Materials**  
Day & Date : Thursday, September 29, 2011  
Time : 5.15 p.m.  
Venue : Main Auditorium, Victor Menezes Convention Centre

*All are invited.*

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**Abstract:** The study of Metal-Organic Frameworks (MOFs) is one of the most fashionable areas of materials chemistry. The Zeolitic Imidazolate Frameworks (ZIFs) are a particularly interesting sub-class of MOFs on account of their close structural relationship to aluminosilicate zeolites. Prof. Cheetham will discuss the recent work on ZIFs, including novel synthetic routes, energetics, mechanical properties, their behavior under pressure and amorphization. He will also describe some of our on-going work on dense frameworks, including their optical, electronic and magnetic properties.

**About the Speaker:** Prof. A. K. Cheetham received his degree in B.A.(Class 1) in Chemistry in 1969 from St. Catherine's College, Oxford, and did his doctoral research on "The Structures of some Nonstoichiometric Compounds" under Prof. Sir Brian Fender in 1971 from Wadham College, Oxford. Prof. Anthony K. Cheetham has broad interests in materials chemistry. Over the last 30 years he and his team have focused on nanoporous and open framework materials, novel phosphors for solid state lighting, magnetic materials, neutron and X-ray characterization, and structural modeling. Most recently, open hybrid framework structures for hydrogen storage and the optical properties of dense structures have been a major focus.