Department of Chemical Engineering, IIT Kanpur

SEMINAR

Speaker: Dr. Sanat Mohanty, Associate Professor, Department of Chemical

Engineering, IITD

Topic : **Self-Assembly of Chromonics Molecules**

Date : Tuesday 3rd April 2012

Place : L-13

Time : 16:00 to 17:00

All are welcome

Tea will be served at 15:45 near L-13

**Abstract:**

Chromonics based molecules form highly ordered structures driven by

enthalpic interactions. Configurational entropy also plays an important

role in the ordered structure. This talk will share our work in

elucidating the fundamentals of their assembly in addition through

experimental analysis and simulations. It will then apply this

understanding to development of nanostructures and development of

products in a areas as diverse as optical displays, safety equipment

and drug delivery.

**About the Speaker Prof**. Sanat Mohanty obtained his B.Tech in Chemical

Engineering from IIT Bombay, and then went on to do his Masters and PhD

from LSU and University of Minnesota respectively. After his PhD he

spent almost 10 years at 3M - working in Corporate research labs

developing technologies in nano-particle polymer composites, and in

drug delivery. Out of 10 years in 3M, he spent the last 4 years at 3M

leading the rebuilding of the Adhesives Research Lab for long term R&D

in the area. In Dec 2010 he joined Department of Chemical Engineering

at IITD as an Associate Professor. Besides that, he is also interested

in questions of sustainability and has published a book on

sustainability in 2002. He is also actively involved in promoting human

rights for the last 12 years and is continuing to publish a

web-magazine for about 10 years now on human rights in South Asia.