



**BILKENT UNIVERSITY**

**unam** - INSTITUTE of MATERIALS SCIENCE & NANOTECHNOLOGY

***FACULTY OF SCIENCE***

**MATERIALS SCIENCE and NANOTECHNOLOGY  
GRADUATE PROGRAM SEMINAR**

**“Water-dispersible Multi Functional Light Emitting Polymer Nanoparticles”**

**Asst. Prof. Dr. Dönüş Tuncel**

Bilkent University  
*Department of Chemistry, UNAM*

Conjugated polymer nanoparticles are highly versatile nano-structured materials that can potentially find applications in various areas such as optoelectronics, photonics, bio-imaging, bio-sensing and nanomedicine. These nanoparticles are desirable for a number of reasons because their properties can be tuned easily for desired applications through the choice of conjugated polymers and surface modification. Additionally, their easy synthesis, tuneable properties and less toxicity and more biocompatibility compared to the existing inorganic nanoparticles further make these materials highly attractive in the material choice.

This talk will overview the research works conducted relating to these versatile and multifunctional water-dispersible nanoparticles in our laboratory and elsewhere by discussing their synthetic methods, their properties and to provide some examples to demonstrate their applications.

**Date : May 14, 2010 (Friday)**

**Time : 15:40**

**Place : Faculty of Science Building, A Block, Seminar Room (SA 240)**

**Tea will be served after the seminar**