

Seminar

Title: Nanomaterials and their special application

Speaker: Prof. Li Changming

Nanyang Polytechnic

Time: 2:30-5:30 (pm) Sep. 5, 2011 (Monday)

Place: Meeting room 308, IPE Mansion



Abstract

This seminar will present Dr. Li's research work, in particular, the unique approaches to synthesize and characterize various nanostructure organic and inorganic materials and their novel advanced bionanosystems such as bio-/nanoelectronics, biosensors, lab-on-a chip, catalysts and green energies for applications. Interesting mechanisms to enhance the performance of the bionanosystems will be discussed. The interdisciplinary research involves science and engineering in physics, chemistry, biology and materials and leads to significant fundamental insights and important applications.

Introduction

Prof Li Changming currently is the Head of Bioengineering Division in the School of Chemical and Biomedical Engineering and Director for Advanced Bionanosystems. He received his Bachelor degree in Chemistry from USTC, Master and Ph.D. degrees from Wuhan University in 1986, respectively. Then he became the lecturer in Chemistry Department of Wuhan University. From August 1988, he spent 2 year more postdoctoral research under supervision of Prof Larry F. Faulkner in University of Illinois at Urbana-Champaign. In 1991, he joined WPI, USA to work as the senior scientist and managed a R&D team to develop biosensors. He has been often invited as a referee and reviewer for a number of premier journals, including Phys Rev Lett, JACS, Adv Mater, Nanolett, Anal Chem, and Chem Comm, etc. He served as the Member of USA National Science Foundation Review Panel for Sensors & Biological Products (2008), the Member of USA NIH Multidisciplinary Study Section (1994), Member of Public Sector Funding Panel of the Science and Engineering Research Council (Singapore, 2010) and Editorial Member of RSC journal Nanoscale (2009).