Department of Mechanical and Biomedical Engineering

Seminar Series

Thermal effects of organic memory thin film transistor

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Date: 9 November, 2012 (Friday)
Time: 5:00 pm – 6:00 pm (Tea Reception at 4:45 pm)
Venue: Room CY-2250 (Cheng Yick-Chi Building)

Abstract
Organic devices like memory, pressure sensor, optical sensor and temperature sensors are developing rapidly based on the thin film transistor (OTFT) structure. Recently, the floating nanoparticle memory transistor is developed. The key advantages of this structure is the good balance between the carrier mobility and memory size of the transistor based on the fact that the growth of the pentacene was not affected by the metal nanoparticles. In this seminar, we will discuss the performance of the memory devices with this structure. We will also discuss the integration with pulsed laser deposition grown on BaSrTiO dielectric, the thermal effects on these memory devices and the related temperature profiling system for these devices.

About the Speaker
Dr. Chan is currently an assistant professor of the Mechanical Engineering Department of The University of Hong Kong. His research focuses on the novel structures and fabrication techniques of flexible devices for different applications like energy conversion, sensing or memory. Before joining HKU in year 2011, Dr. Chan was working as an assistant professor in the Hong Kong Polytechnic University.

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All are welcome!

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