



Department of Chemical Engineering presents

The 13th Annual G.J. and S.T. Su Distinguished Lectureship

April 29, 2015

3:25 p.m.

Gavett Hall 202

Refreshments served at 2:30 p.m.

Professor Ching Tang, PhD.

Department of Chemical Engineering
UNIVERSITY OF ROCHESTER



Organic Light Emitting Diode: Evolution of the next-generation display technology

In recent years organic light emitting diode (OLED) has been successfully commercialized as a display technology for applications ranging from handheld smartphones to large-area, high-definition televisions. Because of its many attributes – low-power consumption, infinite contrast, micro-second response, near-180-degree view angles, and wide color gamut – all of which are derived from the use of organic semiconductors for charge transport and light emission, OLED has achieved almost picture-perfect quality and significantly raised the display technology standards. In this presentation, the evolution of OLED from its early discovery in the form of a donor-acceptor hetero-junction device structure to its emergence as the next-generation display technology will be described along with an assessment of its future outlook.