



**Seminar Topic:
Understanding Nanostructures and Nanostructure Development using X-rays**

Professor Lam Yeng Ming

Abstract

Nanostructures can be used for a range of applications because of their unique optical and electrical properties. These nanostructures can be purely organic or inorganic, or even hybrid in nature. As structures become more complex due to the need to combine different properties in one single structure, it becomes more critical to be able to study the structural and chemical compositions carefully. Such investigations will provide some insights to the mechanistic development of the structures and why these structures can lead to the desired properties. In this talk, I will cover a few examples of how x-ray techniques can be used to acquire important information in these systems.

Biography

Dr Lam Yeng Ming received her Ph.D. degree in Materials Science and Metallurgy from the University of Cambridge in 2001. She is currently a Professor in the School of Materials Science and Engineering at Nanyang Technological University, Singapore and the Director of the Facility for Analysis, Characterization, Testing and Simulation (FACTS). She is also the governing board member for the International Symposium for Polymer Analysis and Characterization (ISPAC), in addition to sitting on the National Committee on Measurement and Characterization. She held a concurrent Senior Scientist position in RWTH Aachen University in Germany from 2011 – 2014 and a concurrent Senior Scientist position in IMRE, A*STAR from 2010 – 2011. She has more than 120 refereed publications. In addition, she was conferred the Nanyang Award for Excellence in Teaching in 2006, and the L'Oréal-UNESCO For Women in Science Award and the Nanyang Outstanding Young Alumni Award in 2009.

**Wednesday, 4 April 2018 || Time: 2:00 pm – 3:00 pm
Venue: MSE Meeting Room (N4.1-01-28)
Hosted by: Associate Professor Zhang Qichun**