CBC SEMINAR ANNOUNCEMENT

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Why Study and Control the Conformation and Supramolecular Arrangement of Molecules by CD/SRCD Spectroscopy?
Applications to Drugs, Proteins, Nucleic Acids, Nanocrystal Cellulose, Light Harvesting Complex II and Optoelectronic Materials.

The function/activity of molecules such as drugs, proteins, nucleic acids (DNA, G-quadruplex, i-motifs and RNA) and carbohydrates is strictly related to their conformational properties and behaviours under perturbing conditions like solvent composition, ionic strength, concentration, pH, temperature, pressure, UV irradiation, ligand interactions, and detergents. Supramolecular arrangements are also of paramount importance for chiral polymers and optoelectronic materials. The highly collimated beamlight of Diamond B23 beamline for synchrotron radiation circular dichroism (SRCD) has enabled for the first time a variety of experiments. CD imaging (CDi) of thin films of chiral materials (thin films and thin crystals) at unprecedented spatial resolution (50 micron) in the far-UV to visible region (180-650nm), high throughput CD (HTCD) using 96-cell plates to screen ligand binding interactions and optimise crystallographic solvent conditions will be presented.

Date: 15th April 2019 (Monday)
Time: 2.30pm to 4.00pm
Venue: SPMS Research & Graduate Studies Office Conference Room
Host: Associate Professor Tan Howe Siang