Title: X-ray spectroscopy of metal nanostructures toward catalytic and biomedical applications

Synchrotron X-ray spectroscopy techniques are powerful tools for the atomic scale analysis of structure and properties of materials. In this talk, the application of these X-ray techniques in the study of some functional nanomaterials, such as alloy catalysts and luminescent protein-gold nanoclusters will be presented. It will be demonstrated that the X-ray spectroscopy methods can sensitively probe the structure and physicochemical properties of the metal nanostructures at the atomic scale, and thus help to more thoroughly understand their structure-property relationships. The structural information revealed by the X-ray techniques should be useful in guiding the catalytic and biomedical applications of these materials.

Coffee & Timbits will be served at 10:00 am

Please contact: Dr. Aicheng Chen at aicheng@uoguelph.ca if you have any questions.