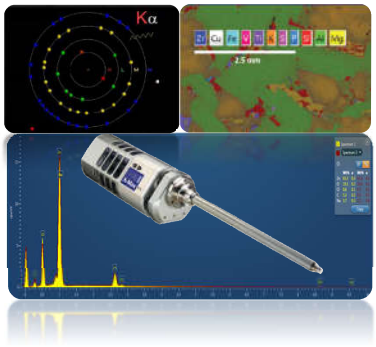
MCF Lunch Seminar Series 2017

Giesecke Engineering Research Building (ERB 154)

April 11

12:00-1:00PM



An Introduction to Energy Dispersive X-ray (EDX) and its Applications

EDS (Energy Dispersive Spectroscopy) is an established technique used to characterize the elemental composition of a sample under the beam of an electron microscope. This seminar will discuss the basic principles and how SDD hardware detects and measures the X-rays and converts them into signals which can be used by software to provide accurate and reliable EDS analysis.

Speaker: Dr. Winson Kuo

Register as seats are limited : winsonkuo@tamu.edu

April 13

12:00-1:00PM

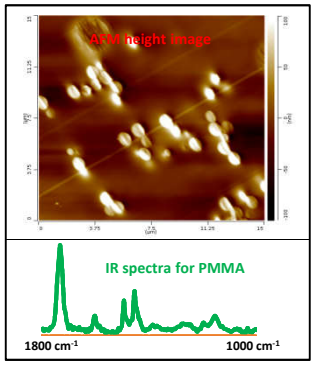


Photo Thermal IR Spectroscopy and Chemical Imaging using AFM-IR

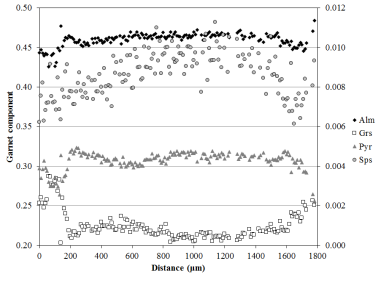
AFM-IR (Atomic Force Microscopy-Infrared Spectroscopy) is an hybrid technique that provides the spatial resolution of AFM with chemical analysis capabilities of infrared spectroscopy. This workshop will discuss the operation principle, applications, and limitation of AFM-IR.

Speaker: Dr. Wilson K. Serem

Register as seat are limited : wserem@tamu.edu

April 18

12:00-1:00PM



Imaging and Quantitative Analysis using the Electron Microprobe (EPMA)

The primary function of the electron microprobe is to acquire standardized, quantitative compositional data for materials using wavelength dispersive spectrometry. Quantitative and qualitative compositional maps can also be acquired using the instrument. This workshop will cover basic theory and applications.

Speaker: Dr. Andrew Mott

Register as seats are limited : andrew.v.mott@tamu.edu

Light refreshments will be provided **Free Parking**