GET1024: Radiation – Scientific Understanding and Public Perception

Tutorial 2

Notes from the lecturer:

For this tutorial, you will visit a Radiochemistry Laboratory to view and understand more deeply some of the detectors that were covered during Lecture 5. You will have the opportunity also to listen to researchers working on:

(1) Alpha spectrometry
(2) Liquid Scintillation Counter
(3) Gamma Spectrometry
(4) Mass Spectrometry

Instructions

1. Please meet at the reception area **at Level 2 of CREATE Tower at UTown**. The tutor will assist you to sign in to CREATE where the Radiochemistry Lab of SNRSI is located.
2. Important: As we are visiting a Chemistry Lab, please ensure that you are properly attired for the visit, i.e., please wear **long pants / jeans** and **covered shoes** (no sandals).
3. Please attend the tutorial session that you have signed up for as we have sent the name list of each class to CREATE Registration Counter. Please also to be on time as you will be brought together to the labs.

Task After Visit

You will be tasked to determine whether the Fiestaware cup that was shown during Lecture 7 contains natural or depleted uranium. This would determine approximately when the cup was produced. A gamma spectrum of the cup obtained during the visit will be given to you after the visit together with other information to help you in this task.