

# **ACCELERATOR SEMINAR**

## **“Medical Isotope Crisis and What Has Been Done To Solve It”**

***Thomas J. Ruth,  
TRIUMF Laboratory***

Technetium-99m is the most widely used radiotracer for diagnoses throughout the world. Tc-99m is derived from the decay of  $^{99}\text{Mo}$  which has been extracted from  $^{235}\text{U}$  targets irradiated in reactors. With the anticipated imminent closures of several reactors used to produce the  $^{99}\text{Mo}$  concerns about a possible shortage of supply have become a major concern in the health sector. A number of solutions have been proposed ranging from the construction of new reactors, to refurbishing existing reactors, to the use of different kinds of accelerators to supply either  $^{99}\text{Mo}$  or  $^{99\text{m}}\text{Tc}$  directly. This talk will focus on the approaches based on accelerators.

**Thursday, May 8, 2014  
11:00 a.m.  
CEBAF Center Auditorium**

**Coffee before seminar at 10:45 a.m.**