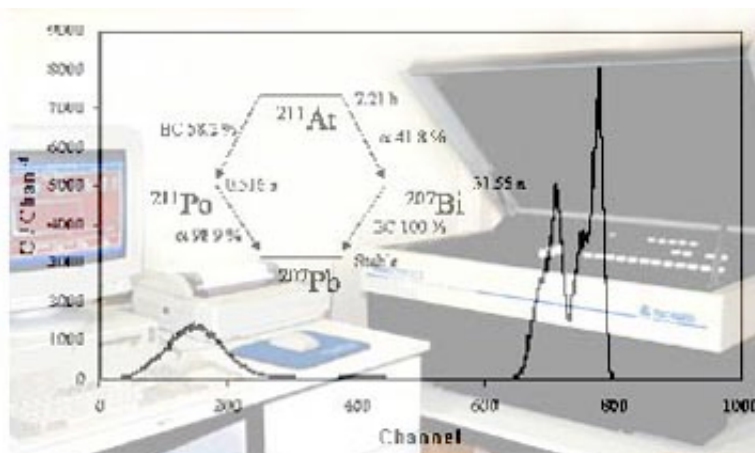




Fundamentals of Liquid Scintillation

Course Description

Liquid Scintillation Counting for many radiochemistry laboratories has often been an underutilized instrument. The origin of the lack of use can be traced back to a time when LSC instrument backgrounds were ten times that of a gas flow proportional counter. Today's instruments now rival background measurement for "traditional" beta and alpha counting. Another reason for lack of use can also be traced to a very limited amount of formal training on the calibration and use.



This important 3.5 day event will focus on an in-depth view of general LSC calibration and counting concepts (with an emphasis on tritium, other low energy beta emitters) and will provide an overview of the latest techniques for achieving appropriate results. This course also presents an overview of radiochemistry lab processes and pitfalls.

How You'll Benefit from This Course

In this course you will:

- Consult with seasoned experts on Liquid Scintillation problems and challenges.
- Develop a deeper knowledge of LSC instrument performance.
- Develop a better understanding of LSC Advantages and Disadvantages.
- Receive references to deepen your understanding of scintillation principles in radiochemistry needed to support the needs of the nuclear industry.
- Learn about concepts being applied in around the world.

Some Key Topics You'll Learn About

History & Theory : Advantages/Disadvantages : Calibrations
Sample Types & Prep : Discriminator Settings : Measurements
Gross alpha/beta Measurements : Applications : LSC vs Alpha Spec
Čerenkov Counting : Statistics : Uncertainties : Propagations of error

 **Visit Online for complete information!**

