## Workshop Session 6

## HIGH RESOLUTION GAMMA-RAY SPECTROMETRY ANALYSES FOR NORMAL OPERATIONS AND RADIOLOGICAL INCIDENT RESPONSE

US EPA NAREL, Dr. John Griggs and Environmental Management Support (EMS)

During the past 8 years, EPA has sponsored radiochemistry training for state laboratories and a series of proficiency test samples containing activation and fission products to state, commercial and government laboratories. The objective of these programs was to provide laboratory staff with the basics of radiochemistry, and in particular gamma spectrometry. One of the realizations coming from the training and PT sample evaluations was that many technical staff had only a brief introduction to several areas of radiochemistry. In particular, gamma spectrometry was seen to be a weak area. The technical information regarding the practice of gamma ray spectrometry was not well consolidated into one document, and the technical aspects of dealing with high activity samples versus environmental samples was not addressed in significant depth anywhere. Also needed was guidance on how to use different software functions based on the type of samples being analyzed.

The guide, "High Resolution Gamma-Ray Spectrometry Analyses for Normal Operations and Radiological Incident Response" was written to provide new and experienced users with a new reference on the topic that addressed some of the newest features of how the gamma spectrometry system functions and how to review the data. This workshop will engage the audience in the materials presented in the guide and demonstrate the utility of the document.

## **Workshop Goal:**

Present information contained in the recent EPA document with the above title. Reinforce basic gamma ray interactions and analysis using high resolution gamma ray spectrometry.

## **Presenters:**

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