AbstractID: 14363 Title: Practical Considerations of PET

The purpose of this presentation is to familiarize persons in other areas
medical physics with the basic physics of imaging with PET.  In this discussion
three areas in PET imaging are examined:  The creation and propagation of the
signal, the corrections to the data, and the reconstruction of the images from
the data.  Within these areas computational tools such as Monte Carlo and simple
image reconstruction programs are used to provide more a more intuitive
understanding of the basic physics and the performance of PET cameras.

Learning Objectives:

1. Understand the physical phenomena involved in PET imaging.
2. Understand how data corrections are used to improve the accuracy of imaging
the tracer distribution.
3. Understand how PET images are generated.