

A BRIEF OVERVIEW OF THE LIFE SCIENCE AND MEDICAL DEVICE
INDUSTRY FOR ENGINEERS

Mr. Bob Brooks
Medrad, Inc.
Marshall Township, PA

Abstract

The life sciences and medical device landscape changes daily as a result of new technologies, discoveries, and innovations. Changes starting with the latest discoveries in medical science, to the applications in which these discoveries manifest themselves, to the nuts and bolts that tie the applications together. These changes in turn define the winners and losers in medical technology. It should be obvious why an engineer entering this field would be wise to understand the dynamics of the rapidly changing and ever expanding field.

In this talk we will take a very high-level look at the Life Science field, particularly electronic medical devices, starting with an overview of devices themselves, governing bodies and principles, and essential regulations, continuing with a discussion of the various engineering functions and roles within the medical device field and some of their responsibilities and challenges within the life-cycle of a medical device, and concluding with an overview of the industry nationally and locally.

Speaker's Biographical Sketch

Bob Brooks is a Project Engineer in the Interventional Products Business Unit at Medrad Inc headquartered in Marshall Township PA, where he is responsible for the electrical design of new injector systems, and managing various product engineering activities for existing products. He currently holds a Masters Degree in Electrical Engineering from the University of Pittsburgh. Bob founded the IEEE Engineering in Medicine and Biology Society Pittsburgh chapter in 2000 and continues to work with the chapter to provide programs of interest to engineers, researchers, and students in the Pittsburgh area.

DATE: Wednesday, October 28, 2009

TIME: noon – 1:00 pm

LOCATION: 424 Benedum Hall