Speaker: Robert Kephart (Fermilab)

Title: Applications of Accelerators and the Illinois Accelerator Research Center

Abstract: Accelerators developed for Discovery Science have evolved to become an important engine driving the world economy. Over 30,000 accelerators are in operation worldwide, yet only 1% of these are now for Discovery Science. Growing sales of industrial and medical accelerators exceed $2B/yr and these devices touch over $500B in products annually. This talk will describe some these applications as well as a suite of promising new applications. Included will be a description of a new Center under construction at Fermilab to promote Lab-Industry-University partnerships in Accelerator Applications and Education.