

University of Notre Dame  
College of Science  
Department of Physics

## **NUCLEAR SEMINAR**

### **Nuclear-Free Zone? Not Likely. The Unsung Uses of Radioactivity in Industry and Everyday Life**

Dr. Lissa Tegelman  
*Isotope Products*

**Monday, November 1, 2010 4:00 p.m. NSH 124**  
**(Refreshments will be served prior to the seminar in 124 NSH)**

Although we live in a country with a longstanding culture of fear of all things “nuclear” and “radioactive,” there are a surprising number of applications of radioactivity in everyday life. The idea of a “Nuclear-Free Zone” has become trendy recently, but the reality is that if you drive a car, fly on a commercial airline, buy or sell a house, eat or drink anything from a bottle or can, or takes notes in a physics seminar, then your life has been improved by a radioactive device. We will discuss some of the more interesting and unusual applications of radioactivity in an unsuspecting world, and the ups and down of life in the nuclear industry.

Lissa Tegelman has a Ph.D. in nuclear chemistry from Oregon State University. She is head of engineering/research & development for the medical division of Eckert & Ziegler Isotope Products, one of the largest global manufacturers of radioactive sources and devices.

**ALL INTERESTED PERSONS ARE CORDIALLY INVITED TO ATTEND**