

Physics Department Seminar

Friday May 11th, 2007

11:00 am in PHSC 105

Applying Physics with Advanced Light Technologies

Mr. Joe Gran

Department of Physics
California State University, Chico

Abstract:

At Advanced Light Technologies (ALT), we make use of basic physical principles, a complex set of analytical tools, and various light sources to conduct research. I will discuss the basic algorithm used by ALT to guide our research, as well as the underlying physics behind some of our analytical tools and laser sources. Topics covered include: differential scanning calorimetry, attenuated total reflection Fourier transform infrared spectroscopy, and ultraviolet-visible spectroscopy, CO₂ and CO lasers, UV lasers and future research possibilities.

Advanced Light
Technologies

Why Is Ice Slippery?

Mr. Tamara Jones

Department of Physics
California State University, Chico

Abstract:

In 1859 James Thomson proposed that a water film on the surface of the ice caused by pressure melting was the source of the slipperiness. However, it turned out that pressure melting can not account for the ability of ice skaters to skate at temperatures as low as -30 degrees Celsius. This talk will look at the various theories that have arisen to explain this phenomenon.

