

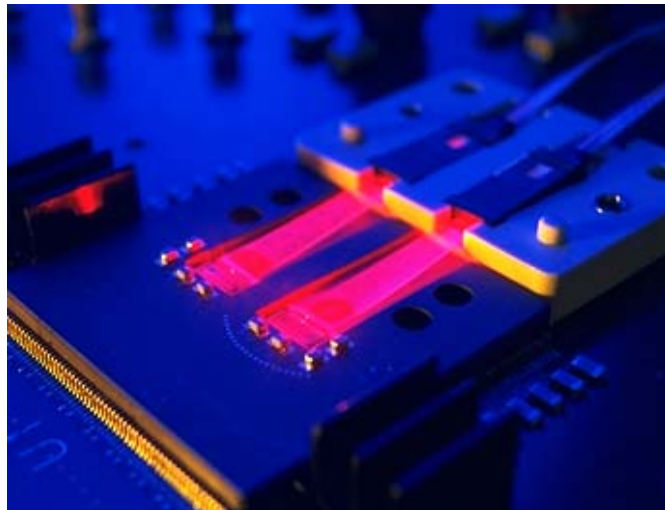
Physics Department Seminar

Friday April 23, 2010

11:00am in PhSc 108

“Nanophotonics: Investigating a Small Problem”

Mr. Kyle Scully
Senior Physics Major, CSUC



Abstract:

Electronics can now be fabricated on a scale of a few nanometers. This very small size leads to bandwidth narrowing that limits processing speed. Replacing the electrons with photons – photonics – eliminates the bandwidth limitation, but leads to other physical issues that must be understood if processing speed is to be increased. One area of current study is the coupling of light to the device through free electrons. This talk will focus on the structure and function of photonic crystals with their plasmonic coupling.