

Physics Department Colloquium

“Explorations of Photonic Crystals and Meta-Materials”

*Professor Shanhui Fan
Stanford University*

The capability for controlling optical and electromagnetic waves is of vital importance for a wide variety of applications ranging from information technology, to sensing, to energy applications. While conventional ways to manipulate light is limited by the properties of naturally available optical materials, the recent developments of photonic crystals and meta-materials are allowing researchers to develop material systems with greatly enhanced capabilities. In this talk, I will review some of the basic ideas behind photonic crystals and meta-materials, and present examples in some of our recent works towards stopping light and creating high-index meta-materials.

Thursday, March 26, 2009

4:00 PM in 102 JFB

Refreshments served, 3:30 in 219 JFB