



SACRAMENTO STATE

Department of Physics & Astronomy Spring 2007

Physics Colloquium Series

"Exploring the "Poor-man's" Superlens"

I will briefly discuss some of the general features of metamaterials and their possible uses for constructing "superlenses"; i.e. lenses capable of focusing better than the diffraction limit. The talk will concentrate on a special subclass of lenses that can operate in the electrostatic limit (the proverbial "poor-man's" lens). Such lenses are relatively easy and inexpensive to build and there is much that can be learned about the phenomena of superresolution from them. We will finish with some preliminary results from experiments carried out at Intel Corporation during my sabbatical last Fall.

Dr. Gary Shoemaker

Sacramento State

Chair, Department of Physics and Astronomy

Thursday, May 3, 2007

4:10-5:20 PM MND 1015

Open & Free to all Students, Faculty & Public