

# Colloquium Notice

## Ying-Chih Chen

Hunter College of CUNY

### *Focusing of light in optically diffusive media*

Convergence of light toward a desired location in optically diffusive and aberrative media is the most important challenge in optical methods of biomedical imaging, where inhomogeneous media with some degree of opacity are generally present. I will review various approaches towards this goal. The techniques include optical phase conjugation, measuring the transmission matrix of forward and back scattered light, and microscopic wavefront adjustments. I will show examples of applying the new understanding and techniques to control spatial coherence in multimode fibers and laser arrays.

Monday

**September 19, 2011**

Starts at 12:15 PM

Coffee at 12:00 PM

Physics Conference Room, SB B326