

# Colloquium Notice

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**Penn State, Engineering Science and Mechanics**

*Optical nanotechnology is a PLT sandwich*

Decreasing feature sizes due to advances in nanotechnology place a premium on careful treatment of phase, length, and time in optics. All three quantities are intermeshed due to morphology at the nanometer length-scale. After examining the characteristics of the responses of columnar thin films and chiral sculptured thin films to optical pulses and beams, the thesis that nanotechnology for optics is a phase-length-time sandwich is put forward.

Monday

**October 25, 2004**

Starts at 12:15 PM

Coffee at 12:00 PM

Physics Conference Room, SB B326