

**THURSDAY
NOVEMBER 1, 2007**

**Scaife Hall Auditorium
Room 125**

4:30 p.m.
Refreshments—4:00 p.m.



**William L. Wilson, CSO
Co-Founder and Chief Scientist of
InPhase Technologies**

Dr. Wilson has worked on holographic and photonic systems and materials for more than 20 years. Prior to joining InPhase Bill was a distinguished member of the technical staff at Lucent Technologies Bell Laboratories. Bill holds a Ph.D. in Chemical Physics from Stanford University and has authored more than 100 technical publications and holds more than 25 US patents.

High Density Optical Data Storage via Volume Holography: A Product at Last!

A review of the InPhase Technologies archive drive is presented. This enterprise optical device is the first commercially available optical drive based on holographic technology. A description of the enabling optical and mechanical physics and technology advances will be presented as well as the road map for the technology's evolution. The key advances in media will also be described. This drive, which has a 300GB user capacity on a 130mm disk, (20MB/sec transfer rate), is positioned to be a key part of near-on line archival storage strategies of HD video content. This product in addition represents a paradigm shift in the optical storage industry and will spur generations of new optical drive platforms and products.

ECE Seminar Hosts:

Radu Marculescu,
radum@ece.cmu.edu

Yi Luo,
y1827@andrew.cmu.edu

Bruno Sinopoli,
brunos@andrew.cmu.edu