November 5, 2007
Departmental Colloquium
"Is Spacetime an Emergent Phenomenon?"

3:40 PM - Thursday, November 8, 2007
109 Nicholson Hall

Vijay Balasubramanian
University of Pennsylvania
Host - Luis Lehner

* Refreshments served at 3:15 PM in 229 Nicholson Hall *

I will argue, first in the semiclassical theory of gravity and then in string theory, that space time itself is an emergent phenomenon that arises as a long distance effective description of a more complex underlying system. Many of the arguments will focus on the origin of entropy in gravitating spacetimes.

Material Science and Engineering
"Micro-oscillators, Micromagnets, and Magnetic Resonance Force Microscopy"

3:40 PM - Wednesday, November 7, 2007
109 Nicholson Hall

John Markert
University of Texas
John DiTusa - Host