



Physics Department - University of South Alabama *Presents Colloquium Speaker*



Dr. Laurie McNeil

Professor, Department of Physics and Astronomy

Thursday, September 15, 2011
3:30-4:30 P.M., ILB 250



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

Organic Semiconductors: Bright Future for Old Materials

Organic molecules such as tetracene crystallize into solids that can be semiconductors, metals, or even superconductors. Although they were first developed over half a century ago, it is only fairly recently that the considerable promise that organic semiconductors hold as materials for electronics, display technologies, and solar cells has begun to be realized. Lightweight, flexible, and inexpensive, these materials offer an attractive balance between cost and performance, complemented by versatility and functionality accomplished by means of molecular design. I will review the physics of organic semiconductors and describe how their electronic and optical properties can be utilized in a variety of applications.

This colloquium is partly supported by the American Physical Society

Refreshments are served at 3:15 P.M.

Host: Dr. R. Godang