

Physics Colloquium Series

(joint with Chemistry Department)

Liquid Crystal Controlled Ordered Polymer Morphologies and the Electro-Optical Applications

Using a small concentration of polymer to stabilize liquid crystal phases or structures has become a useful tool for improving the performance of existing liquid crystal-based electro-optical devices. These include flat-panel displays and electrically switchable optical elements. The liquid crystal controlled polymer morphologies, unique among these applications, plays a critical role in the performance of these devices. In this presentation, I will discuss the formation of ordered polymer microstructures, the mechanism of polymer phase separation, and the influence of polymer morphologies on the properties of electro-optical devices.

Dr. Liang-Chy Chien

***Liquid Crystal Institute & Chemical Physics Program
Kent State University***

Friday, January 28, 2005

3:00-5:00 PM MND 1015

OPEN & FREE TO ALL STUDENTS & FACULTY