

SPECIAL  
CONDENSED  
MATTER  
SEMINAR



**Mike Cates**

*University of Edinburgh, Scotland, UK*

## **Colloidal Arrest and Capillary Forces**

Solid particles with near-neutral wetting characteristics are very strongly absorbed to an interface between two solvents. This is the basis of various technologies such as “Pickering emulsions.” I will present computer studies of colloids in binary fluids aimed at creating new arrested states (gels) based on the same principles. Related structures are formed when a nematogenic solvent containing colloids is quenched into the nematic phase. Recent lab experiments suggest that here, also, capillary forces arising from the presence of a second solvent are the key to the arrest mechanism.

**Thursday, August 5, 2004 at 12:00 p.m.**  
**Duane Physics Seminar Room, G1B31**



Sponsored by the Ferroelectric Liquid Crystal Materials Research Center  
Department of Physics, University of Colorado.

<http://flcmrc.colorado.edu>