

Abstract Submitted  
for the MAR08 Meeting of  
The American Physical Society

**Modelling Interfaces in Liquid Crystal/isotropic fluid mixtures**  
COLIN DENNISTON, DAN VRIESINGA, University of Western Ontario — We use all-atom molecular dynamics simulations of mixtures of a real liquid crystal (5CB) and water to study the 5CB/water interface. Properties of the director anchoring at the interface are studied in detail. We map our results onto a continuum model implemented using lattice Boltzmann simulations. We examine anchoring as a function of interface shape and droplet size and discuss the impact on liquid crystal colloidal suspensions.

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Date submitted: 27 Nov 2007

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