

Abstract Submitted  
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**Study of Langmuir and Langmuir-Blodgett Thin films<sup>1</sup>** ROSS GOODWIN, CHANDRA PRAYAGA, AARON WADE, University of West Florida — Arachidic Acid, Cholesterol, and Stearic Acid thin films were created and studied utilizing the Langmuir method in order to obtain a single molecule or monomolecular layer out of a desired substance at an air-water interface. The phase transitions are observed by measuring the surface pressure vs. area isotherms. Langmuir-Blodgett (LB) films were created on a prepared substrate. The LB film structures were then studied using X-ray Diffraction, and Raman Spectroscopy.

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