

Abstract Submitted  
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**Brewster Angle Microscopy and Characterization of Polyvinylidene Fluoride (PVDF) Based Langmuir Films**<sup>1</sup> TIMOTHY REECE, University of Nebraska at Kearney — The behaviors of ferroelectric polymer Langmuir films are observed with the use of a Brewster angle microscope. In general, Langmuir films form a single molecular layer on water because they are often good amphiphiles. Since the polymer Polyvinylidene Fluoride (PVDF) is not a true amphiphile, parameters like solution concentration, water pH, and molecular weight may have an effect on film behavior and quality. Similar polymers with hydrophobic groups are also investigated.

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