

Abstract Submitted  
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**Investigating How Contact Angle Effects the Interaction between Water and a Hydrophobic Surface** ADELE POYNOR, CAITLYN NEIDIG, Allegheny College — By definition hydrophobic substances hate water. What happens when water is forced into contact with a hydrophobic surface? One theory is that an ultra-thin low-density region forms near the surface. Contact angle is a measure of how hydrophobic a surface is. We have employed an automated home-built Surface Plasmon Resonance (SPR) apparatus to investigate the effect of varying the contact angle on the depletion layer

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