

Abstract Submitted  
for the MAR17 Meeting of  
The American Physical Society

**How the Degree of Hydrophobicity Effects how Water Meets a Hydrophobic Surface** ADELE POYNOR, Allegheny College — By definition hydrophobic substances hate water. Water placed on a hydrophobic surface will form a drop in order to minimize its contact area. What happens when water is forced into contact with a hydrophobic surface? One theory is that an ultra-thin low-density depletion layer forms near the surface. We investigate the role of contact angle on depletion layer formation using the surface sensitive technique of Surface Plasmon Resonance

Adele Poynor  
Allegheny College

Date submitted: 14 Nov 2016

Electronic form version 1.4