

Abstract Submitted
for the MAR05 Meeting of
The American Physical Society

Orientalional structure of water molecules near the solid/water interface probed with Second Harmonic Generation¹ PENG WAN, HARRY TOM, Department of Physics, University of California, Riverside — A new experimental method was developed especially to probe the Stern Layer effective capacitance and the interfacial depth of water allowing us to probe the accuracy of the Gouy-Chapman Stern model. This is done using Surface Second Harmonic Generation (SHG) performed at the silica/water interface. By varying the pH, salt concentration and temperature of the aqueous solutions, we gain insight into the molecular orientational structure in the interfacial region.

¹National Science Foundation (0111728)

Peng Wan
Department of Physics, University of California, Riverside, CA 92521

Date submitted: 07 Dec 2004

Electronic form version 1.4