

MAR16-2015-000047

Abstract for an Invited Paper
for the MAR16 Meeting of
the American Physical Society

Water at lipid and surfactant interfaces—structure, dynamics, and spectroscopy

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I will consider water confined by reverse micelles, multi-bilayers, and gyroid phases of a number of lipids and surfactants. Theoretical and simulation results will be compared with several non-linear IR experiments, including 2DIR and pump-probe anisotropy. In addition, I will discuss water near lipid and surfactant monolayers, especially making the connection with SFG and 2DSFG experiments.