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Going nonlinear in probing adsorption at aqueous surfaces of environmental importance

GERALDINE RICHMOND, University of Oregon

Aqueous interfaces play a central role in the sustainability of our world and life on this planet. Making advances in understanding environmental, biological and technological issues that involve aqueous interfaces requires a fundamental knowledge of bonding and adsorption at these interfaces. In the studies to be presented in this symposium I will describe our most recent results in which we explore the structure and bonding that occurs at aqueous interfaces with a particular focus on issues that are relevant to environmental issues at both the aqueous/organic and air/water interfaces. Our studies involve a combination of nonlinear and linear spectroscopic techniques, thermodynamic measurements and molecular dynamics simulations.