

***STEINER LECTURE***

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**HEATHER ALLEN****OHIO STATE UNIVERSITY**

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**Wednesday****9/12/07****4:45 P.M.****Science Center A255****“Air-Aqueous Interfacial Structure: Lipids, Salts,  
and Acids”**

Water is essential for life. Its ability to solvate molecular and ionic compounds are of great interest for understanding biological, atmospheric, and environmental processes. Vibrational spectroscopies, infrared, Raman, and surface-selective sum frequency generation, are utilized to elucidate hydration at aqueous surfaces. Using lung-lining and atmospheric-aerosol relevant lipids, perturbation of the free OH bonds at the surface are observed. The air-aqueous interface of salts and acids are also investigated to elucidate water structure. Surface preference of the halides and hydronium are observed.

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THERE WILL BE A RECEPTION FOR THE SPEAKER AT 4:30 P.M.  
WEDNESDAY IN A255 REFRESHMENTS WILL BE PROVIDED

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