CHEMISTRY DEPARTMENT COLLOQUIUM

PROFESSOR JAMES L. SKINNER

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Friday, March 1 3:30 pm Room 1315 Chemistry Building

Hydrogen bonding in water: liquid, surface, clusters, ice

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While the water molecule itself is quite simple, small and large collections of water molecules in clusters and condensed phases are exceptionally complex. I will describe our efforts to understand the structure and dynamics of water in clusters, liquid water, the liquid/vapor interface, and ice, through classical molecular dynamics simulation of a model with explicit two- and three-body interactions. I will also focus on cooperative hydrogen bonding in water, and its relationship to several types of frequency- and timedomain vibrational spectroscopy. Extensive comparison with experiment will be presented.



DEPARTMENT OF Chemistry

RECEPTION TO FOLLOW IN SHAIN ATRIUM