Water, ice and snow, dust, even buildings present large surface areas to the surrounding atmosphere. These surfaces are generally not passive sinks for gas phase chemical compounds, but often represent unique chemical environments for reactions which can strongly influence the local atmospheric chemistry. I will discuss recent work from my laboratory which has tried to elucidate the way(s) in which the chemical nature of an interface with the atmosphere influences the chemical and photochemical reactions taking place there. I will discuss in particular some studies on interfacial transport, chemistry on frozen water surfaces and reactions on “urban grime” surfaces.

Refreshments will be available prior to the seminar at 10:45 a.m. outside room 1315

Graduate Students can meet with the speaker in Room 8305F at 1:00 pm