Prof. Ray Treinen  
Texas State University  

“Uniqueness and non uniqueness of equilibria for the floating ball problem”  

Abstract:  
We consider the floating ball problem, the model for which relies heavily on the geometric PDE that states that the mean curvature of the fluid-air interface is proportional to its height. We consider objects that float which may have densities lighter than the air, or heavier than the fluid. In these cases there is non uniqueness of the equilibria, and we numerically classify their energy to determine the energy minimizers.

Friday, March 11, 2016  
5:00 PM in 127 Jabara Hall