# Texas ★ State University

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# Differential Equations and Applied Math Seminar

Dr. Ray Treinen, Texas State University

11am-12pm January 27th, 2017

330 Derrick Hall

**Title:** Sets of finite perimeter for the equilibrium state of three immiscible fluids VIII

**Abstract:** We will continue our study of the equilibrium state of three immiscible fluids using sets of finite perimeter. We have established the existence of subsequences of sets that converge to cones in the blow-up limit. After a second blow-up limit, we are able to study the problem in the tangent plane to the blow-up sphere. We will classify all volume constrained minimizers to the energy functional in the plane when the minimizers are cones.

Interested faculty and graduate students are encouraged to attend.