



## Differential Equations and Applied Math Seminar

Dr. Ray Treinen, Texas State

12-1pm September 2nd, 2022

328 DH

**Title:** Unbounded liquid bridges

**Abstract:** We will discuss the equilibrium shapes of some fluids in an idealized unbounded region. First we will give historical comments on fluids exterior to a cylinder, and then we will present the unbounded liquid bridge, including two distinct varieties. Some applications of these capillary surfaces will be presented. The ultimate goal of this multi-week presentation will be to cover a recently developed numerical scheme for computing these unbounded surfaces.

Interested faculty, graduate and undergraduate students are encouraged to attend.