

# Differential Equations and Applied Math Seminar

Texas State University

11am-12pm Friday, February 5th, 2016

330 Derrick Hall

**Speaker:** Dr. Jeonghun Lee, University of Oslo

**Title:** Parameter-robust discretization and preconditioning for poroelasticity

**Abstract:** In this talk, finite element methods for poroelasticity which provide parameter-robust preconditioning are discussed. We propose a new formulation of the problem with three unknowns and show that its finite element discretization with appropriate preconditioners has computational costs uniform in various parameter changes.

Interested faculty and graduate students are encouraged to attend.