

THE MATHEMATICS DEPARTMENT PRESENTS

A MATHEMATICS COLLOQUIUM

THURSDAY, December 4, 2008

BOND HALL 217

4:00 pm

Title: **The Golub-Pereyra Variable Projection Method for Separable Nonlinear Least Squares**

Speaker: **Matt Bode**, Western Washington University

Abstract:

In this presentation I will explain a method for nonlinear least squares where the variables separate. A model for the data will be a linear combination of nonlinear functions. We will show that we can solve first for the nonlinear variables. After finding the nonlinear variables we can solve for the linear variables. This presentation will be accessible to anyone familiar with linear algebra and multivariable calculus.

Refreshments will precede the talk at 3:30pm in Bond Hall 300
courtesy of Dr. Yun-Qiu Shen