

Seminar Announcement

Time: Friday, March 12, 2004, 4:00pm

Place: Auburn University Montgomery, Goodwyn Hall, Room 202

Speaker: John V. Baxley, Wake Forest University

Title: Boundary Value Problems: From Linear and Nonsingular
to Nonlinear and Singular

Abstract:

Boundary value problems for ordinary differential equations will be surveyed, with an emphasis on the kinds of questions that interest me. My goal is to illustrate with examples and elementary methods the reasons why boundary value problems are more complicated than initial value problems. Some of the difficulties are already present for simple nonsingular linear problems, but nonlinearities and singularities which are inherently nonlinear provide added excitement. Finally, problems of current research interest will be described. Throughout, I will make an effort to discuss the kinds of applications in which the problems and questions arise.

****Refreshments will be served at 3:45pm****