

**APPLIED MATHEMATICS SEMINAR**  
Department of Mathematics  
University of West Georgia  
**4 PM, MONDAY, NOVEMBER 21, 2005, BOYD 330**

Speaker: Dr. Bo Yang  
Department of Mathematics  
Kennesaw State University, GA 30144-5591

Title: **Oscillation of a Neutral Delay Differential Equation**

**Abstract**

After a short survey of the oscillation theory of differential equations, we consider the oscillatory properties of the neutral delay differential equation

$$(x(t) - x(t - r))' + P(t)x(t - \sigma) = 0. \quad (1)$$

Sufficient conditions for the oscillation and non-oscillation of equation (1) are given. Positive solutions of the equation (1) are classified.

All are welcome.