

THE MATHEMATICS DEPARTMENT PRESENTS

# A MATHEMATICS COLLOQUIUM

TUESDAY, May 20, 2008

BOND HALL 428

4:00 pm

Title: **Ramsey Theory and Applications**

Speaker: **Neal Bushaw**, Western Washington University

Abstract:

Ramsey Theory is an area of mathematics which lies in the overlap of combinatorics and graph theory. The classical theorems of Ramsey Theory consider how large an object must grow before it is sure to contain, under every coloring, some particular monochromatic sub-object. In this talk, I will present Ramsey's Theorem, with proof, as well as Schur's Theorem, the Happy Ending Problem, and others. This talk will be accessible to anyone with a mathematical background.

Refreshments will precede the talk at 3:30pm in Bond Hall 300  
courtesy of Dr. Amites Sarkar.