

DEPARTMENT OF MATHEMATICS COLLOQUIUM
UNIVERSITY OF WEST GEORGIA

3:30 PM, FRIDAY, APRIL 4, 2008, BOYD 302

Speaker: **Dr. Matt Walsh, Indiana University-Purdue University at Fort Wayne**

Title: **Kneser Representations of Graphs**

A representation of a graph is a labelling of its vertices with elements from some suitably chosen set in such a way that two vertices are adjacent precisely when their labels are in some given relation with each other. Several classes of graph representations have been studied, notably intersection, product, and modular representations. In this talk I shall be exploring Kneser representations, where vertices are labelled with sets of a fixed size and two vertices are adjacent precisely when their labels are disjoint.