

DISCRETE MATHEMATICS SEMINAR
Department of Mathematics
University of West Georgia
3:30 PM, MONDAY, MARCH 14, 2005, BOYD 301

Speaker: Prof. Anne Penfold Street, University of Queensland, Australia

Title: **Defining sets of block designs and how to find them**

Abstract

In a given class of combinatorial structures there may be many distinct objects with the same parameters. Two questions arise naturally.

- Given two such objects, where and how do they differ?
- How much of an individual object is needed to identify it uniquely?

These questions are obviously related, the first leading to the concept of a *trade*, and the second to that of a *defining set*.

This talk deals with minimal defining sets in block designs and with several ways of finding them, including an efficient new algorithm.

All faculty and students are welcome.