

**2004**  
**2nd PRAIRIE DISCRETE**  
**MATH WORKSHOP**

University of  
Lethbridge



Faculty of Arts & Science

# **Second Prairie Discrete Mathematics Workshop**

*Department of Mathematics and Computer Science  
University of Lethbridge  
Lethbridge, Alberta  
October 1 – 3, 2004*

This workshop builds on the success of the First Prairie Discrete Math Workshop organized by Shaun Fallat and Brian Alspach and held at the University of Regina in Regina, Saskatchewan, in early October 2003. The intention is to hold workshops on an annual basis at various universities for the purpose of getting together combinatorists from (at least) Manitoba, Saskatchewan and Alberta and adjacent States for a relatively informal workshop.

*We gratefully acknowledge the support of  
the Dean and Faculty of Arts & Science  
who provided funding  
for this workshop through the  
Department of Mathematics and Computer Science  
Speaker Series budget.*



# Second Prairie Discrete Mathematics Workshop

*The Department of Mathematics and Computer Science  
presents a series of talks in discrete mathematics.*

*Everyone welcome.*

## Program

### Friday, October 1 in C674 (50 minute talks)

14:00	Ted Dobson, Mississippi State	On the Cayley isomorphism problem for Cayley objects of nilpotent groups of some orders
15:00	Jim Liu, University of Lethbridge	Graph decompositions and FPGA-switch box designs
16:00	Jenny McNulty, University of Montana	Magic Numbers of Complete Graphs

### Saturday, October 2 in D634 (50 minute talks)

9:00	Shaun Fallat, University of Regina	On the minimum rank of graphs
10:00	Ryan Hayward, University of Alberta	Notes on Hex
11:00	Michael Doob, University of Manitoba	Ramanujan Graphs: what they are, where they come from and why they are interesting
14:00	Robert Craigen, University of Manitoba	New developments in the classification of orthogonal matrices
15:00	Stephen Kirkland, University of Regina	Constructing Laplacian Integral Graphs
16:00	Mark Kayll, University of Montana	A look at graph colouring through three different lenses
17:00	Warwick de Launey, Center for Communication Research, San Diego	Group Actions on Paley Matrices

### Sunday, October 3 in D634 (50 minute talks)

9:00	Brian Alspach, University of Regina	Searching and Sweeping Graphs
10:00	Norbert Sauer, University of Calgary	Colouring subsets of the Rado graph
11:00	Dragan Marusic, University of Ljubljana	Slovenia On 2-arc-transitive graphs of dihedral groups

*For more information, including abstracts of the talks, please visit:*

[www.cs.uleth.ca/pdm2](http://www.cs.uleth.ca/pdm2)