

Submittee: Richard Brewster
Date Submitted: 2013-06-10 10:31
Title: Prairie Discrete Math Workshop
Event Type: Conference-Workshop

Location:
Thompson Rivers University, Kamloops, BC

Dates:
May 3, 4 2013

Topic:
Discrete Mathematics

Methodology:
6 invited talks and 5 contributed talks. Event was co-hosted with TRU's 41st annual high school math contest. One invited talk was to the PDMW 2013 & high school teachers (Daryl Funk). One invited talk was to the PDMW, the high school teachers and the students (Bill Sands). Bill's talk was examples of contest problems that led to research problems.

Objectives Achieved:
Key objectives included hosting a math conference at TRU. We are relatively new as a university and hosting other researchers to see our university is important. Based on the feedback, the workshop was very successful in this respect. Another key objective was to hold a joint session of researchers (professors and students) with the high school contest students to give the students a flavour of research mathematics. The event allowed networking (at lunch) between the two groups. Bill gave an excellent talk. The research level mathematics was challenging for the high school students, but the teachers acknowledged the students understood the spirit of the problems.

Scientific Highlights:
N/A

Organizers:
Brewster, Richard//Ottaway, Paul, Dept of Math & Stats, Thompson Rivers University

Speakers:
Invited Speakers: James Currie, University of Winnipeg, Avoiding Three Consecutive Blocks of the Same Size and Same Sum// Daryl Funk, Simon Fraser University, Rearranging edge sets of cycles

in graphs// Donovan Hare, University of British Columbia Okanagan, The Cluster Deletion Problem for Cographs// Kieka Mynhardt, University of Victoria, Secure Paired Domination// Shahla Nasserar, University of Regina, Partial Orders on Totally Nonnegative Matrices// Bill Sands, University of Calgary, When worlds collide: math research vs. math contests// Contributed Talks: Sophie Burrill, SFU, Using generating trees to construct Skolem sequences// Ross Churchley, SFU, Finding tree-transverse matchings using local implications// Samuel Johnson, SFU, Towards a combinatorial understanding of lattice path asymptotics// Steve Melczer, SFU, Classifying Lattice Walks in the Quarter Plane// Andrew Poelstra, SFU, On Double Arithmetic Progressions// Laura Teshima, UVic, Broadcasts and Multipackings of Graphs// (Abstracts are in the program attached.)

Links:

Conference site is here <http://faculty.tru.ca/rbrewster/pdmw/>

Comments / Miscellaneous:

The full program for the workshop is attached. Andrew Poelstra was sick on Saturday. Paul Ottaway, TRU, presented a talk on Surreal Numbers and Game Theory.

File Uploads:

Additional Upload 1: http://www.pims.math.ca/files/final_report/ProgramApril24.pdf
