

# East Coast Combinatorics Conference 2013 Report

May 23, 2013

The ninth annual East Coast Combinatorics Conference was held at the Grenfell Campus of Memorial University during May 9-10, 2013.

This conference is designed to attract regional mathematicians, computer scientists, and graduate students interested in various aspects of discrete mathematics. The intended scope of the conference includes graph theory, extremal combinatorics, combinatorial optimization, probabilistic combinatorics, combinatorial number theory, design theory, finite geometries, and applications of combinatorics in computer science.

The conference was made possible through generous funding from the Atlantic Association for Research in the Mathematical Sciences (AARMS), and funding from the St. Johns and Grenfell campuses of Memorial university.

For further information about the individual talks and format of the conference, see the attached information package that was provided to attendees of the conference.

The conference attracted 16 registered participants, of which 13 were regional and 3 were national/international.

This year we were delighted to attract plenary lectures from internationally recognized experts.

Professor Charles Colbourn, a researcher with over 400 publications in discrete mathematics and computer science, spoke on “F-Vectors of Pure Complexes and Pure Multicomplexes of Rank Three”, which outlined his recent work to solve some open questions arising from questions in commutative algebra.

Professor Kieka Mynhardt, an expert in the area of graph domination, gave a survey talk on the topic of “Broadcast Domination in Graphs”, which in particular discussed recent connections to the multipacking number in graphs.

In addition to exposing regional researchers to world-class plenary speakers, a major benefit of the conference is to help maintain and strengthen collaboration of researchers in discrete mathematics in Atlantic Canada. To this end the conference included a problem workshop, which was well attended.

## Conference Revenues and Expenses

<b>Revenue Description</b>	<b>Amount</b>
Conference fees ( 8 at 80/per)	640.00
AARMS funding	2000.00
Memorial University Conference Fund	2000.00
<b>Total Revenues</b>	<b>4640.00</b>
<b>Expense Description</b>	<b>Amount</b>
Colbourn flight	(USD) 1288.30
Colbourn hotel	598.90
Colbourn stipend	500.00
Mynhardt flight	785.47
Mynhardt hotel	271.20
Mynhardt stipend	500.00
Mynhardt taxi	30.00
Nutrition breaks	160.00
Conference lunch	341.91
Misc. hosting	20.15
Misc. hosting	90.42
Misc. hosting	35.00
<b>Total Expenses</b>	<b>4621.35</b>
<b>Net</b>	<b>18.65</b>

Notes:

1. All figures Canadian dollars except where noted.
2. Conference fees were waived for presenting graduate students and participants without funding.