

2011 East Coast Combinatorics Conference

Acadia University, Wolfville, Nova Scotia, May 4 – 6, 2011

Organizers: Nancy Clarke and Jim Diamond (Acadia University)

The ECCC series is designed to bring together mathematicians and computer scientists interested in all aspects of combinatorics. The scope of the conference is intended to cover most aspects of modern combinatorics including, but not limited to, graph theory, extremal combinatorics, combinatorial optimization, probabilistic combinatorics, combinatorial number theory, design theory, finite geometries, and applications of combinatorics in computer science.

The first two days of the conference included the invited and contributed talks. The third day was reserved for those wishing to take the opportunity to collaborate with other attendees.

The event was made possible through the generous support of AARMS, with additional support provided by Acadia University.

This event brought together 29 researchers and students in graph theory, design theory, and other areas of combinatorics. The students especially benefitted from the opportunity to meet and interact with their peers across the region, as well as to hear about the many and varied research interests of faculty.

Our keynote speakers were Peter Dukes from the University of Victoria and Lorna Stewart from the University of Alberta. Peter's research interests include determining the existence and structure of combinatorial configurations, such as designs, codes and graphs, using algebraic, number theoretic and computational methods. Although Peter is an early career researcher, just 7 years from his Ph.D., he has over 30 publications to date. Lorna's research interests include the design and analysis of algorithms, and complexities of problems for structured classes of graphs. Lorna is an established researcher with more than 40 publications in refereed journals and conference proceedings.

Peter and Lorna each delivered a one hour plenary talk. Peter's talk was entitled *Designs and the cone condition* and Lorna's was entitled *Overlap representations and overlap numbers of graphs*. We note that Peter comes from a mathematics and statistics department and Lorna comes from a computer science department. These speakers were chosen, in part, to appeal to both design theorists and graph theorists, both mathematicians and computer scientists, and thus to attract the widest possible audience to this meeting.

There were 13 additional speakers, who gave 25 minute talks. A complete list of these speakers is included. A list of participants, in addition to the speakers, is also given. (Students are indicated with an asterisk.)

Speakers (Contributed talks):

- Huda Chuangpishit, Dalhousie University*
- Robert Dawson, Saint Mary's University
- Danny Dyer, Memorial University of Newfoundland
- Art Finbow, Saint Mary's University
- Shannon Fitzpatrick, University of Prince Edward Island
- Andrei Gagarin, Acadia University
- Bert Hartnell, Saint Mary's University

- Rebecca Keeping, Dalhousie University*
- Neil McKay, Dalhousie University
- Franklin Mendivil, Acadia University
- David Pike, Memorial University of Newfoundland
- Asiyeh Sanaei, Memorial University of Newfoundland*
- Suzanne Seager, Mount Saint Vincent University

List of Participants (in addition to speakers):

Cathy Baker (Mount Allison University)
 Iain Beaton (St. Francis Xavier University)*
 Rory Begin (St. Francis Xavier University)*
 Justin Boutilier (Acadia University)*
 Sophie Deviller (Acadia University)*
 Stephen Finbow (St. Francis Xavier University)
 Jeff Hooper (Acadia University)
 Moinul Islam (Acadia University)*
 Austin MacDonald (St. Francis Xavier University)*
 Margaret-Ellen Messinger (Mount Allison University)
 Rania Moussa (Saint Mary's University)*
 Chris van Bommel (St. Francis Xavier University)*

Revenues/Expenses

Expenses	Particulars	Amount
Keynote speakers	Dukes	1126.33
	Stewart	1329.57
Graduate student support		395.66
Local expenses	facility rentals	1720.00
	venue prep/clean up	48.94
	catering	692.47
	administrative support	100.00
	conference programs	36.00
	folders and pens	45.59
	name tags	18.72
	Total expenses	

Revenues	Amount
Registration fees	801.50
Acadia University	1720.00
AARMS	2991.78
Total revenues	\$5513.28