



Memorial

University of Newfoundland

December 10, 2013

David Langstroth, AARMS Executive Administrator
Room 451, Faculty of Computer Science
Dalhousie University
6050 University Avenue
P.O. Box 15000
Halifax, Nova Scotia
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Dear Mr. Langstroth:

This is the report on CanaDAM 2013 (Canadian Discrete and Algorithmic Mathematics Conference) that was held on the St. John's campus of Memorial University of Newfoundland during June 10 – June 13, 2013.

The CanaDAM 2013 meeting had 285 registered participants of which 110 were students. At least 28 different countries were represented on the list of participants as well as all 10 Canadian provinces.

The program committee under the leadership of Daniel Panario of Carleton University put together an excellent program consisting of 8 plenary talks, 9 invited minisymposia with a total of 45 talks, 28 contributed minisymposia with a total of 136 talks, and 74 contributed talks which were not part of a minisymposia. The names and affiliations of the plenary speakers, and titles of their talks follow:

- Carla Savage (North Carolina State University), *Generalized inversion sequences*.
- Victor Reiner (University of Minnesota), *Catalan numbers, parking functions, and invariant theory*.
- Robert Sedgewick (Princeton University), *"If You Can Specify It, You Can Analyze It" — the lasting legacy of Philippe Flajolet*.
- Miguel Anjos (École Polytechnique, Montréal), *Conic optimization: relaxing at the cutting edge*.
- Reinhard Diestel (Universität Hamburg), *From pretty pictures to infinite matroids via graph homology: a surprising connection*.
- Anne Condon (University of British Columbia), *Programming molecules*.
- Benny Sudakov (University of California Los Angeles), *Induced matchings, arithmetic progressions and communication*.

- Cheryl Praeger (The University of Western Australia), *Local transitivity properties of graphs and pairwise transitive designs*.

In addition to these plenary talks there was a very well received 1 hour popular lecture on Opt Art (art constructed with the assistance of optimisation techniques) given by Robert Bosch from Oberlin College, USA. This lecture was preceded by a reception hosted in part by the publisher Elsevier. Abstracts and other details about the conference can be found on the conference web page <http://canadam.math.ca/2013>, as well as within the enclosed printed program.

It is worthwhile noting the breadth of mathematics, applications, and theoretical computer science that is represented at this conference. For example, we had talks and minisymposia on finite fields, algebraic combinatorics, geometric graph theory, Galois geometries, analytic combinatorics, graph theory, combinatorial optimisation, complexity theory, data structures, probabilistic combinatorics, and computational biology.

One of the primary goals of the conference is to encourage the participation of Canadian graduate students and PDFs. The three Canadian Mathematical Institutes (CRM, Fields and PIMS) each pledged \$8300 towards the support of graduate students and PDFs attending the meeting. Funding from AARMS in the amount of \$6000 is also gratefully acknowledged. In addition to its monetary contributions, the Fields Institute assisted with the design and distribution of the conference poster for CanaDAM 2013. In order to receive financial support graduate students were encouraged to contribute talks. Furthermore, Brett Stevens from Carleton University hosted a problem session devoted to the presentation of research problems appropriate for graduate students. A reception for graduate students followed the problem session. It was especially gratifying that more than 40% of the attendees were graduate students and post doctoral fellows. This solid participation of students and PDFs could not have happened without the generous support of CRM, Fields, PIMS, AARMS, the CMS and Memorial University of Newfoundland. The Canadian Mathematical Society provided conference services such as: webpage design and maintenance, abstract submission, and processing of registration fees for CanaDAM 2013.

Regarding the conference's finances, there still remain a few items that have yet to be reconciled. For instance, we have not yet been invoiced for the tables we rented for the registration area (at an estimated cost of \$1200) and there are a handful of student travel claims that remain pending (for an estimated \$1200). Nevertheless, the overview on the following page offers what should be a reasonably accurate summary.

Note that some anticipated expenditures did not arise. For instance, arrangements had been made with the MUN Childcare Centre so that the conference would cover the childcare expenses of children of conference participants. However, none of the conference delegates availed of this service. We were also fortunate that Memorial University's Department of Mathematics was able to book the meeting space such that the conference did not incur rental fees for the venue.

REVENUES

Registration Fees	73600.00	
MUN Conference Fund	7500.00	
MUN Dean of Science	2500.00	
AARMS, CRM, Fields, PIMS	30900.00	
Exhibitors	1180.00	
		115680.00

EXPENSES

Rental of Space	0.00	
Equipment Rental (estimate)	1200.00	
CMS Conference Support	3600.00	
Staff and Student Help	2631.75	
Printing of Program	2756.38	
Conference Kits	3243.70	
Supplies	371.81	
Signage	436.53	
Plenary Speakers' Travel & Registration	26875.17	
Student Travel and Registration Support	43215.76	
Pending Student Travel Claims (estimate)	1200.00	
MUN Childcare Centre	0.00	
Hosting	30694.85	
		116225.95

Net Surplus		-545.95
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The support from Memorial University's Conference Fund was provided on the condition that if there should be a surplus, then the Conference Fund would be correspondingly reimbursed. At present the conference is projecting that its expenditures will exceed the income by \$545.95, although an exact figure will not be known until the last of the invoices and travel claims come in. If there should ultimately be a surplus, then it will be duly transferred to the MUN Conference Fund.

I trust that this report is satisfactory. However, if you should have any questions, please feel free to contact me at your convenience.

At this time I would like to request that AARMS send its pledged support of \$6000 in the form of a cheque made payable to Memorial University of Newfoundland. An invoice to this effect is enclosed.

Thank-you for your support,



David A. Pike, PhD, FTICA
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