

# Report on the 23rd Canadian Conference on Computational Geometry Toronto, August 9-12, 2011

Organizers: Greg Aloupis and David Bremner  
<http://2011.cccg.ca>

## **Description of event**

CCCG'2011 took place in Toronto as part of the Fields thematic program on discrete geometry. The conference had record-breaking attendance and number of submitted/accepted papers. As a consequence of this size, it was hosted at the nearby facilities of the University of Toronto.

There were 105 papers reviewed, of which 83 were accepted (both figures roughly 20% up from last year). Each was allowed a 20-minute presentation. There were three sessions held in parallel. Furthermore, three one-hour invited talks were given (see Scientific Highlights section). As every year, there was an Open Problem session, attended by all participants.

## **Participation**

Participation was up 50% compared to last year. Details are given in the table that follows. Four participants came from the Atlantic Provinces. A list of students supported is provided as an appendix to this document.

## **Publications**

Each submission was reviewed by three members of the PC. All accepted papers appear in public electronic proceedings on the conference website. Printed proceedings (over 500 pages in total) were made available to all participants, and further copies can be purchased from CCCG. Each paper was given a space of 6 pages, double-column format.

A special issue of the journal *Computational Geometry: Theory and Applications* will be devoted to a selection of papers from CCCG (expanded versions). The organizers have selected 7 papers for this issue, most of which have been submitted already.

## **Scientific highlights**

The three invited speakers and their lecture topics were:

- Noga Alon (Tel Aviv University) – List Coloring and Euclidean Ramsey Theory
- William Steiger (Rutgers University) – Geometric Partitioning
- Emo Welzl (ETH Zurich) – Counting Simple Polygonizations of Planar Point Sets

As every year, the Open Problem session proved to be particularly popular. It is hosted annually by Erik Demaine (MIT) and Joseph O'Rourke (Smith College). The problems, and updates, are listed formally in the proceedings of the following year.

Table 1: Registered Participants (not including those who attended only social events)

Country	Students & Postdocs	Faculty	Other	Total	Attended
Canada	46	16	1	63	62
USA	23	21	2	46	43
Germany	7	1		8	7
Belgium	4	2		6	6
Japan		5		5	5
Taiwan	3	1		4	4
Israel	1	3		4	3
Austria	2	1		3	3
Switzerland	2	1		3	3
Mexico	1	1		2	2
India	2			2	2
Iran	1	3		4	1
Italy	1			1	1
China	1			1	1
France	1			1	1
Norway	1			1	1
Spain		1		1	1
Subtotal (non Canada/US)	27	19		46	41
Total	96	56	3	155	146

### Income and Expenditure Account

The registration fee (without proceedings) was set at \$150 for all participants. Nearly all students had this fee waived thanks to sponsorship from Fields, Mprime and AARMS.

Seminar rooms, coffee breaks, name tags, posters, welcome packages and on-site support were provided by Fields. Further expenses are shown in the table that follows.

Sponsorship:

- The amount from Fields was mainly used for invited speakers, and the remainder for students.
- Mprime covered reimbursements for Canadian students.
- AARMS covered reimbursements for students.

Table 2: Expenses

Source	Expense
Invited speakers	\$5,568
Printing	\$2,300
Reception 1 (Knox)	\$3,720
Reception 2 (Panorama)	\$6,842
Reception 3 (Hart)	\$5,731
Misc. catering	\$40
Reimbursements / waivers of student registration	\$14,150
Processing fees for registration	\$222
<b>Total</b>	<b>\$38,573</b>

Table 3: Income

Source	Income
Fields	\$7,000
Mprime	\$5,000
AARMS	\$2,500
Student registration (eventually reimbursed)	\$14,150
Student registration (kept)	\$950
Regular registration	\$9,035
<b>Total</b>	<b>\$38,635</b>

### Other information (notable changes in this year's event)

- Three receptions were held, instead of one reception and one dinner, using the same budget. This was done to increase the potential for participants to meet and network. The response and feedback was overwhelmingly positive.
- Preview sessions were held: Each speaker was given the opportunity to present a one minute preview of their talk, in front of all participants. This idea was met with enthusiasm.
- Printed proceedings were optional and charged separately: Approximately 80% of participants opted out of printed proceedings. The price covered actual printing costs, while the preparation costs were shared among all participants. An electronic copy is publicly available.
- The majority of student registration fees was waived. Also, payment options with reduced processing fees were provided. As a result of these actions, approximately \$500 in operating costs was saved.